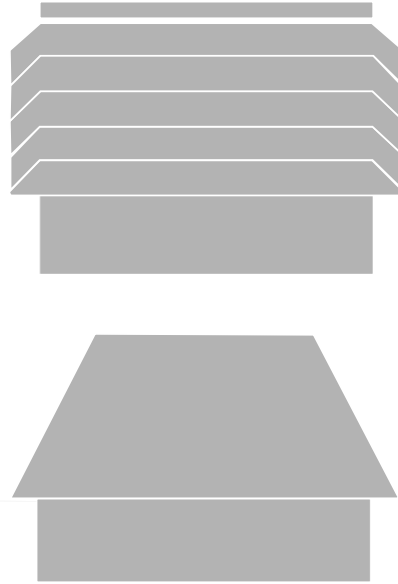


LC



COOK

Low Contour Power Roof Ventilators



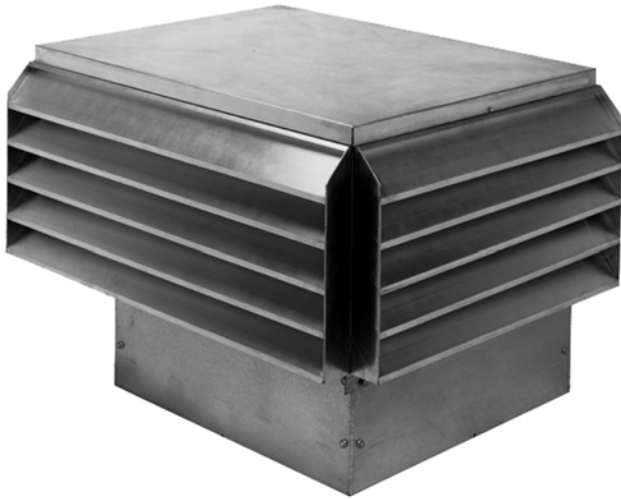
	Page
Introduction	2
Standard Construction Features	3
Specifications and Dimension Data	
TLC-D (Tiered Low-Contour Power Roof Ventilator - Direct Drive)	4
TLC-B (Tiered Low-Contour Power Roof Ventilator - Belt Drive)	5
HLC-D (Hooded Low-Contour Power Roof Ventilator - Direct Drive)	6
HLC-B (Hooded Low-Contour Power Roof Ventilator - Belt Drive)	7
TLCH-D / TLCH-B (Hurricane Resistant - Direct/Belt Drive)	8
Accessories	9-11
Performance and Sound Data	
70-180 TLC-D / TLCH-D	12-13
100-365 TLC-B / TLCH-B	14-22
402-540 TLC-B	22-25
70-180 HLC-D	26-27
100-540 HLC-B	28-39
Other Available Products	40

INTRODUCTION

Loren Cook Company's LC Power Roof Ventilators have been designed to provide a low silhouette for clean architectural lines.

TLC

Tiered Centrifugal Exhaust Ventilator



- Constructed with extruded aluminum louvered design that is architecturally pleasing.
- TLC is available in 8 direct drive sizes and 18 belt drive sizes. Capacities range from 100 to 43,500, with static pressure from 0 to 2 inches.

HLC

Hooded Centrifugal Exhaust Ventilator



- HLC-D, sizes 70-180, and the HLC-B, sizes 100-245 are constructed with a hinged aluminum hood. HLC-B, size 270-540 aluminum hood is designed with a removable top for easy access.
- HLC is available in 8 direct drive sizes and 18 belt drive sizes. Capacities range from 100 to 42,600, with static pressure from 0 to 2 inches.

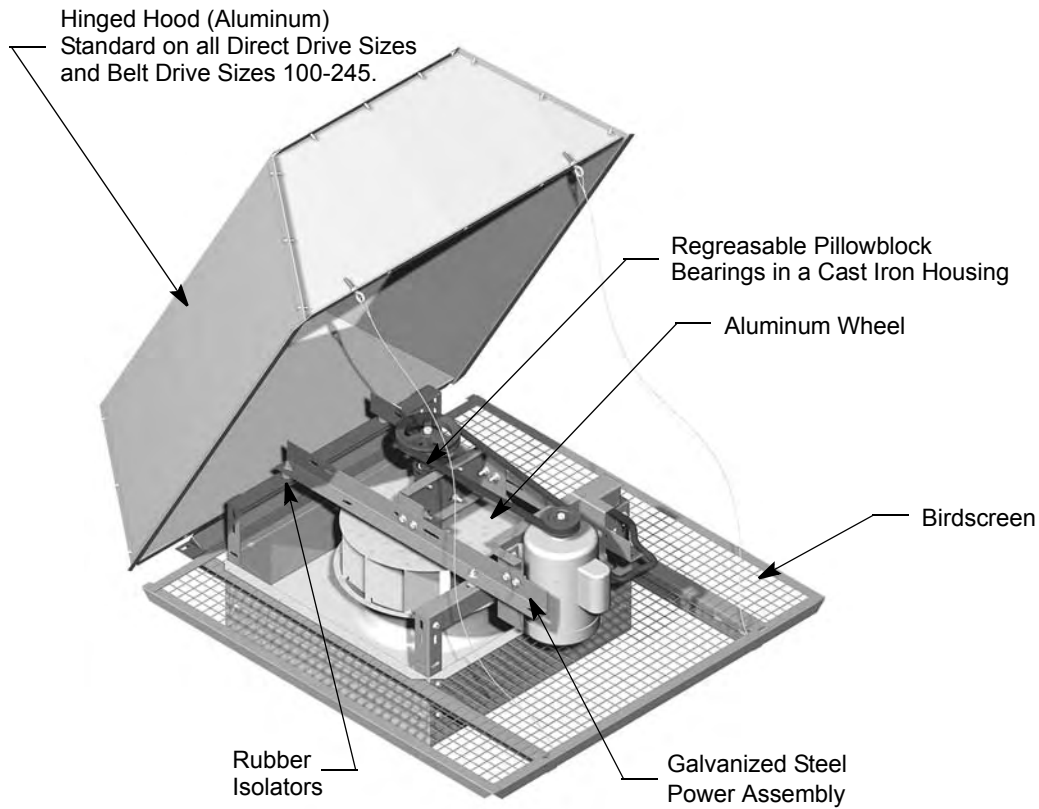
TLCH

Hurricane Resistant Centrifugal Exhaust Ventilator

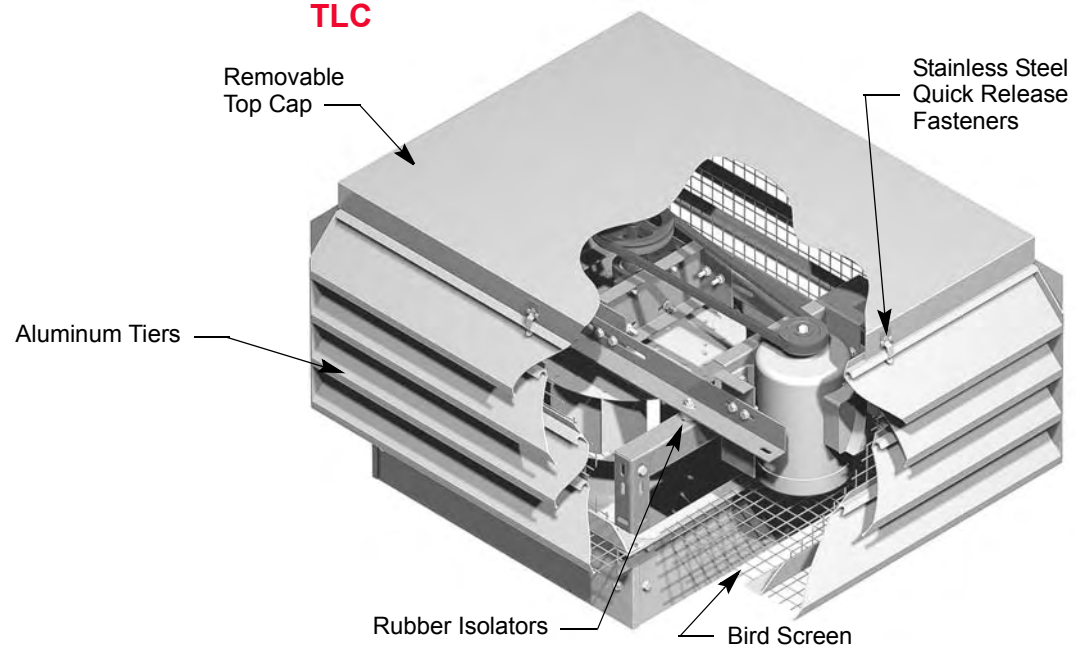


- Hurricane resistant construction.
- Miami-Dade hurricane approved penthouse.
- TLCH is available in 8 direct drive sizes and 14 belt drive sizes. Capacities range from 100 to 22,400, with static pressure from 0 to 2 inches.

HLC

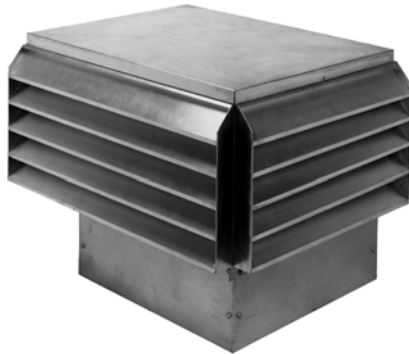


TLC



TLC-D Specifications and Dimension Data

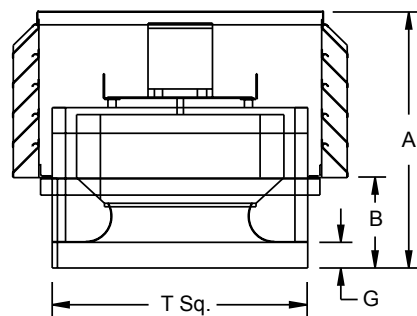
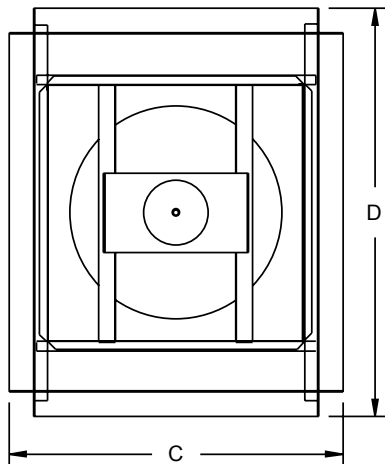
Tiered Low-Contour Power Roof Ventilator Direct Drive



Loren Cook Company certifies that the TLC-D shown here in is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type TLC-D is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Description - Fan shall be a tiered aluminum, low profile, roof mounted, direct driven, downblast centrifugal exhaust ventilator.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall be enclosed in a tiered extruded aluminum housing. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. Motor shall be mounted on a minimum 12 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

Product - Fan shall be model TLC-D as manufactured by Loren Cook Company of Springfield, Missouri.

TLC-D Dimension Data

Size	A Dia.	B	C	D	G	T Sq.	Approx. Ship. Wt. - Lbs.	Roof Opening Sq.*
70	16-7/8	4-1/4	27-1/2	36-1/4	2	18	75	13-1/2
90	17-3/8	4-3/4	27-1/2	36-1/4	2	18	80	13-1/2
100	17-3/8	4-3/4	27-1/2	36-1/4	2	18	80	13-1/2
120	22-1/2	5-7/8	29-1/2	37-1/4	2	20	170	15-1/2
135	22-3/4	6-1/8	29-1/2	37-1/4	2	20	170	15-1/2
150	23-7/8	7-1/4	33-1/2	42-1/4	2	24	200	19-1/2
165	24	7-3/8	33-1/2	42-1/4	2	24	200	19-1/2
180	28-3/8	8-1/4	39-5/8	51-1/2	3	30	240	25-1/2

All dimensions in inches. Weights in pounds. *Roof opening size for curbs supplied by Loren Cook Company only.

Description - Fan shall be a tiered aluminum, low profile, roof mounted, belt driven, centrifugal exhaust ventilator.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall be enclosed in a tiered extruded aluminum housing. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. Bearings, drives and motor shaft be mounted on a minimum 12 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap a non-aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings - Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Belts and Drives - Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

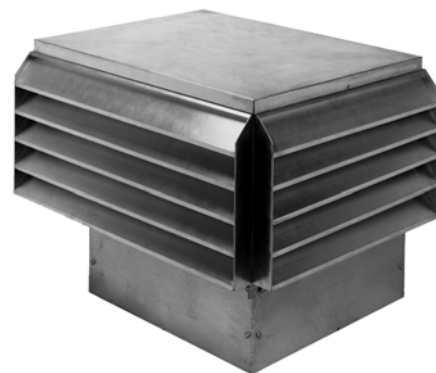
Product - Fan shall be model TLC-B as manufactured by Loren Cook Company of Springfield, Missouri.

TLC-B Dimension Data

Size	A	B	C	D	G	T Sq.	Approx. Ship Wt.** Lbs.	Roof Opening Sq.*
100	17-7/8	5-1/4	27-1/2	36-1/4	2	18	77	13-1/2
120	22-1/2	5-7/8	29-1/2	37-1/4	2	20	175	15-1/2
135	22-3/4	5-7/8	29-1/2	37-1/4	2	20	175	15-1/2
150	23-7/8	7-3/8	33-1/2	42-1/4	2	24	205	19-1/2
165	24	7-3/8	33-1/2	42-1/4	2	24	205	19-1/2
180	28-3/8	8-1/4	39-5/8	51-1/2	3	30	245	25-1/2
195	29-1/8	9-1/4	39-5/8	51-1/2	3	30	245	25-1/2
210	29-3/8	9-1/4	39-5/8	51-1/2	3	30	280	25-1/2
225	30-1/8	10	39-5/8	51-1/2	3	30	285	25-1/2
245	30-3/4	10-5/8	39-5/8	51-1/2	3	30	290	25-1/2
270	34-5/8	11	45-7/8	60-1/4	3	36	385	31-1/2
300	35-3/4	12-1/8	45-7/8	60-1/4	3	36	405	31-1/2
330	40-1/4	13-1/8	53	66-1/4	3	42	475	37-1/2
365	41-1/8	14	53	66-1/4	3	42	485	37-1/2
402	48-3/8	14-1/4	59	73-1/4	3	48	565	43-1/2
445	49-5/8	16-1/2	65	79-1/4	3	54	635	49-1/2
490	51-1/8	18	65	79-1/4	3	54	635	49-1/2
540	49-3/4	13-5/8	77	91-1/4	3	66	790	61-1/2

All dimensions in inches. Weights in pounds, less motor. *Roof opening size for curbs supplied by Loren Cook Company only. **Less motor and drives.

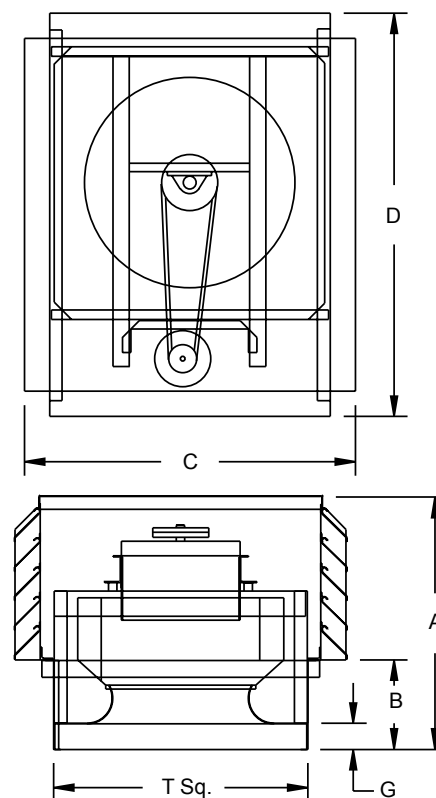
Tiered Low-Contour Power Roof Ventilator Belt Drive



Loren Cook Company certifies that the TLC-B shown here in is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type TLC-B is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



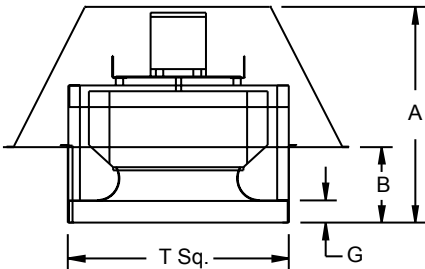
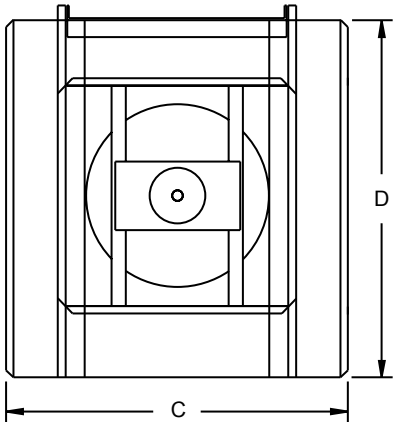
Hooded Low-Contour
Power Roof Ventilator
Direct Drive



Loren Cook Company certifies that the HLC-D shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type HLC-D is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Description - Fan shall be a hooded, low profile, roof mounted, direct driven, down-blast centrifugal exhaust ventilator.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall be enclosed with a minimum .064 aluminum hood bolted to the fan housing. The hood shall be removable to allow unobstructed access to the motor and power assembly. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. Motor shall be mounted on a minimum 12 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

Product - Fan shall be model HLC-D as manufactured by Loren Cook Company of Springfield, Missouri.

HLC-D Dimension Data

Size	A	B	C	D	G	T Sq.	Shipping Weight Lbs.	Roof Opening Sq.*
70	16-1/2	4-1/4	31-1/4	34-1/8	2	18	70	13-1/2
90	17	4-3/4	31-1/4	34-1/8	2	18	85	13-1/2
100	17	4-3/4	31-1/4	34-1/8	2	18	85	13-1/2
120	19-5/8	5-7/8	34-3/4	35-1/8	2	20	165	15-1/2
135	19-7/8	6-1/8	34-3/4	35-1/8	2	20	165	15-1/2
150	21-1/4	7-1/4	40-1/8	42-1/8	2	24	190	19-1/2
165	21-3/8	7-3/8	40-1/8	42-1/8	2	24	190	19-1/2
180	26-1/4	8-1/4	43-7/8	47-1/8	3	30	220	25-1/2

All dimensions in inches. Weights in pounds. *Roof opening size for curbs supplied by Loren Cook Company only.

Description - Fan shall be a hooded, low profile, roof mounted, belt driven, down-blast centrifugal exhaust ventilator.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall be enclosed with a minimum .064 aluminum hood bolted to the fan housing. The hood shall be removable to allow unobstructed access to the motor and power assembly. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. Bearings and drives shall be mounted on a minimum 12 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings - Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Belts and Drives - Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

Product - Fan shall be model HLC-B as manufactured by Loren Cook Company of Springfield, Missouri.

Hooded Low-Contour Power Roof Ventilator Belt Drive



Loren Cook Company certifies that the HLC-B shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

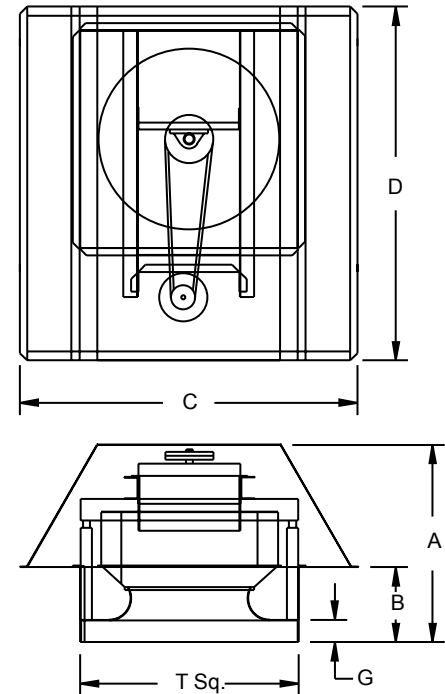


Type HLC-B is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

HLC-B Dimension Data

Size	A	B	C	D	G	T Sq.	Approx. Ship Wt.** Lbs.	Roof Opening Sq.*
100	17-1/2	5-1/4	31-1/4	34-1/8	2	18	70	13-1/2
120	19-5/8	5-7/8	34-3/4	35-1/8	2	20	170	15-1/2
135	19-7/8	5-7/8	34-3/4	35-1/8	2	20	170	15-1/2
150	21-1/4	7-3/8	40-1/8	42-1/8	2	24	195	19-1/2
165	21-3/8	7-3/8	40-1/8	42-1/8	2	24	195	19-1/2
180	26-1/4	8-1/4	43-7/8	47-1/8	3	30	225	25-1/2
195	27	9-1/4	43-7/8	47-1/8	3	30	225	25-1/2
210	28-1/4	9-1/4	46-5/8	49-1/8	3	30	260	25-1/2
225	29	10	46-5/8	49-1/8	3	30	265	25-1/2
245	29-5/8	10-5/8	46-5/8	49-1/8	3	30	275	25-1/2
270	32-1/4	11	58-1/8	58-1/8	3	36	365	31-1/2
300	33-3/8	12-1/8	58-1/8	58-1/8	3	36	375	31-1/2
330	35-3/8	13-1/8	65	65	3	42	435	37-1/2
365	36-1/4	14	65	65	3	42	450	37-1/2
402	43-1/2	14-1/4	82-7/8	78-1/8	3	48	540	43-1/2
445	44-3/4	16-1/2	82-7/8	78-1/8	3	54	600	49-1/2
490	46-1/4	18	82-7/8	78-1/8	3	54	625	49-1/2
540	45-7/8	13-5/8	96	98	3	66	750	61-1/2

All dimensions in inches. *Roof opening size for curbs supplied by Loren Cook Company only. **Less motor and drives.



TLCH-D/TLCH-B Specifications and Dimension Data

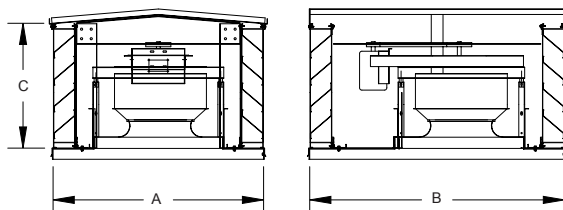
Hurricane Resistant Tiered Low-Contour Power Roof Ventilator Belt/Direct Drive



Loren Cook Company certifies that the TLCH-B and TLCH-D shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 21-1 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type TLCH-B and TLCH-D are furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Description: Fan shall be a tiered aluminum, low profile, roof mounted, either belt or direct driven, centrifugal exhaust ventilator utilizing hurricane resistant louvers.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance. Louvers utilized in penthouse construction shall have passed Florida/Miami-Dade County Hurricane Test Criteria: TAS-201: Large Missile Impact Test, TAS-202: Uniform Static Air Pressure Test, and TAS-203 Cyclic Wind Pressure Test.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall be enclosed in a tiered extruded aluminum penthouse constructed of Miami-Dade County Approved ELF6375DXD drainable stationary louvers. Bearings, drives and motor shall be mounted on a minimum 12 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings (Belt Units Only): Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreaseable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Belts and Drives (Belt Units Only): Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

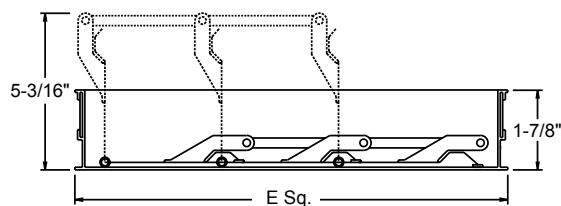
Product: Fan shall be model TLCH-B or TLCH-D as manufactured by Loren Cook Company of Springfield, Missouri.

TLCH Dimension Data

TLCH-D Size	TLCH-B Size	A	B	C	Roof pening O	Ship. Wt.
70-100	100	44	48	31	32 x 36	170
120	120	44	48	31	32 x 36	235
135	135	44	48	31	32 x 36	235
150	150	44	48	31	32 x 36	250
165	165	44	48	31	32 x 36	250
180	180	54	58	37	42 x 46	320
-	195	54	58	37	42 x 46	320
-	210	54	58	37	42 x 46	345
-	225	54	58	37	42 x 46	350
-	245	54	58	37	42 x 46	355
-	270	66	75	43	54 x 63	520
-	300	66	75	43	54 x 63	570
-	330	66	75	43	54 x 63	570
-	365	66	75	43	54 x 63	580

All dimensions in inches. Weights in pounds, less motor.

Gravity Backdraft Damper



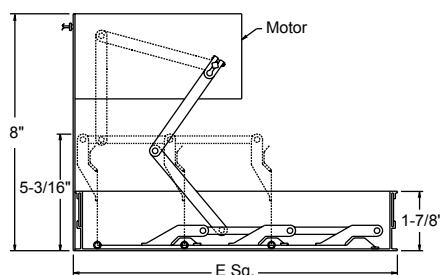
Gravity dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings.

NOTE: Duct mount only on TLCH.

Unit Size	Catalog Number	E Sq.
60, 70, 80, 90, 100	BD-12	11-3/4
120, 135	BD-14	13-3/4
150, 165	BD-18	17-3/4
180, 195, 210, 225, 245	BD-24	23-3/4
270, 300	BD-30	29-3/4
330, 365	BD-36	35-3/4
402	BD-42	41-3/4
445, 490	BD-48	47-3/4
540	BD-60	59-3/4

All dimensions in inches.

Motorized Backdraft Damper



Motorized dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Motors are shipped loose for field installation. Available voltages include 110V, 220V, and 440V.

NOTE: Duct mount only on TLCH.

Unit Size	Catalog Number	E Sq.
60, 70, 80, 90, 100	BDM-12	11-3/4
120, 135	BDM-14	13-3/4
150, 165	BDM-18	17-3/4
180, 195, 210, 225, 245	BDM-24	23-3/4
270, 300	BDM-30	29-3/4
330, 365	BDM-36	35-3/4
402	BDM-42	41-3/4
445, 490	BDM-48	47-3/4
540	BDM-60	59-3/4

All dimensions in inches.

Mitered Corners



Mitered corners are available on the TLC to enhance the architectural look of the fan.

NOTE: Not available on TLCH.

Typical Disconnect Switches



NEMA 1



**NEMA 1
(Lockable)**



**NEMA 1
(Heavy Duty)**



NEMA 3R



NEMA 4



**NEMA 7
NEMA 9**

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 1 (Heavy Duty, Lockable) - Indoor heavy duty visible blade.

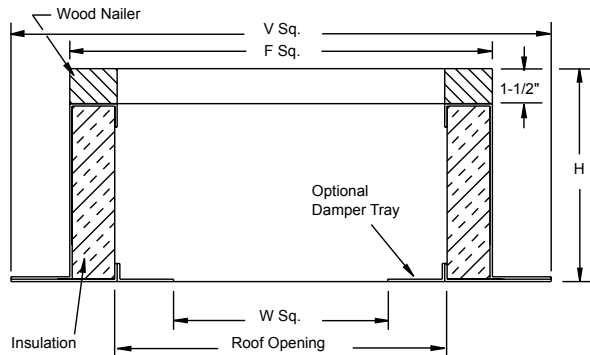
NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Water-tight and dust-tight.

NEMA 7 and NEMA 9 - Lockable, indoor, explosion proof.

ACCESSORIES

Roof Curb (TLC / HLC Only)



Standard Construction Features

- 18 gauge galvanized steel (RCG) or .080 aluminum (RCA).
- 1-1/2", 3 lbs. density thermal and acoustical insulation.
- Continuously welded corners.
- Wood nailer.

Options

- Damper tray.
- No wood nailer (deduct 1-1/2" for actual height).
- 13-1/2" tall construction.

Galvanized Steel or Aluminum Roof Curb Dimension Data

Unit Size	Catalog Number		F Sq.	H	V Sq.	W Sq.	Roof Opening
	Galvanized	Aluminum					
60, 70, 80, 90, 100	RCG-16	RCA-16	16-1/2	9-1/2	20-1/2	9-3/4	13-1/2
120, 135	RCG-18	RCA-18	18-1/2	9-1/2	22-1/2	11-3/4	15-1/2
150, 165	RCG-22	RCA-22	22-1/2	9-1/2	26-1/2	15-3/4	19-1/2
180, 195, 210, 225, 245	RCG-28	RCA-28	28-1/2	9-1/2	32-1/2	21-3/4	25-1/2
270, 300	RCG-34	RCA-34	34-1/2	9-1/2	38-1/2	27-3/4	31-1/2
330, 365	RCG-40	RCA-40	40-1/2	9-1/2	44-1/2	33-3/4	37-1/2
402	RCG-46	RCA-46	46-1/2	9-1/2	50-1/2	39-3/4	43-1/2
445, 490	RCG-52	RCA-52	52-1/2	9-1/2	56-1/2	45-3/4	49-1/2
540	RCG-64	RCA-64	64-1/2	9-1/2	68-1/2	56-3/4	61-1/2

All dimensions in inches. When motor operated damper is used, a wood nailer is required. Roof curb is not hurricane resistant rated.

Sound Attenuator Curb Dimension Data

Unit Size	Catalog Number		F Sq.	H*	V Sq.	W Sq.	Roof Opening
	Galvanized	Aluminum					
60, 70, 80, 90, 100	RCG-AT-16 RC	A-AT-16	16-1/2	16	20-1/2	9-3/4	13-1/2
120, 135	RCG-AT-18 RC	A-AT-18	18-1/2	16	22-1/2	11-3/4	15-1/2
150, 165	RCG-AT-22 RC	A-AT-22	22-1/2	16	26-1/2	15-3/4	19-1/2
180, 195, 210, 225, 245	RCG-AT-28 RC	A-AT-28	28-1/2	16	32-1/2	21-3/4	25-1/2
270, 300	RCG-AT-34 RC	A-AT-34	34-1/2	16	38-1/2	27-3/4	31-1/2
330, 365	RCG-AT-40 RC	A-AT-40	40-1/2	16	44-1/2	33-3/4	37-1/2
402	RCG-AT-46 RC	A-AT-46	46-1/2	16	50-1/2	39-3/4	43-1/2
445, 490	RCG-AT-52	RCA-AT-52	52-1/2	16	56-1/2	45-3/4	49-1/2
540	RCG-AT-64	-	64-1/2	16	68-1/2	56-3/4	61-1/2

All dimensions in inches. When motor operated damper is used, a wood nailer is required. *Add 8" when installed with a damper. Roof curb is not hurricane resistant rated.

Average Sound Level Reduction

OB1 OB2 OB3 OB4 OB5 OB6 OB7 OB8
-5 -11 -9 -14 -18 -28 -35 -25

Fan Speed Control



5 AMP FSC

10 AMP FSC

Cook's FSC is a variable speed controller which can offer excellent energy conservation and lower sound levels when 100 percent of a direct drive fan operating capacity is not required. The FSC employs solid state circuitry for long-life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor direct drive motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring is available.

Motors

Direct Drive

All direct drive motors are standard single phase 115-volt:

- Sizes 70 through 100 are either shaded pole or permanent split capacitor type motors.
- Sizes 120 through 180 are either permanent split capacitor (1075, 1300, or 1550 rpm motors) or split phase (1140 or 1725 rpm motors).
- FSC can only be used on either shaded pole or permanent split capacitor type motors.

Optional motors:

- Two speed, single-phase open motors are supplied as either 1725/1140 RPM or as 1140/860 RPM.
- Explosion proof motors are available for some units, contact factory for details.
- These optional motors cannot use an FSC.

Belt Drive

Single-phase motors:

- Open drip motors from 1/6 to 1-1/2 HP.
- Two-speed, motors in 1725/1140 RPM, from 1/6 to 1 HP.
- TEFC and Class 1, Group D, explosion proof motors from 1/4 to 1 HP.

Three-phase motors:

- Three-phase ODP motors from 1/4 to 10 HP.
- Two-speed, two winding motors in 1725/1140 RPM, from 1/3 to 5 HP.
- TEFC and Class 1, Group D, explosion proof motors from 1/4 to 10 HP.
- Variable Frequency Drive (VFD) compatible motors are available, contact factory for details.

All single-phase and three-phase, single speed, open drip motors listed in performance tables are shipped factory installed.

Optional Coatings

Lorenized® is an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Coating must exceed 1,000 hour salt spray under ASTM B117 test method.

Cook Epoxy Powder is an electrostatically applied, baked epoxy powder coating. Final coating thickness is 2.5 - 3.5 mils. For outdoor applications an optional UV resistant topcoat is available to prevent cosmetic chalking of the coating.

Cook Phenolic Epoxy Powder is an electrostatically applied, baked phenolic epoxy powder coating. Final coating thickness is 2 - 4 mils. For outdoor applications an optional UV resistant topcoat is required to prevent deterioration of the coating.

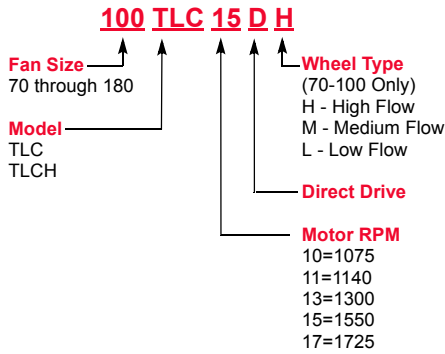
Cook Easy Clean Powder is an electrostatically applied, baked modified epoxy silicone powder producing a high temperature "non-stick" coating. Final coating thickness is 1.3 - 1.7 mils.

Air Dry Phenolic (Heresite VR-504) is a conventional spray applied phenolic resin coating. Final coating thickness is 4 - 6 mils. For outdoor applications an optional UV resistant topcoat (Heresite UC-5500) is required to prevent deterioration of the coating.

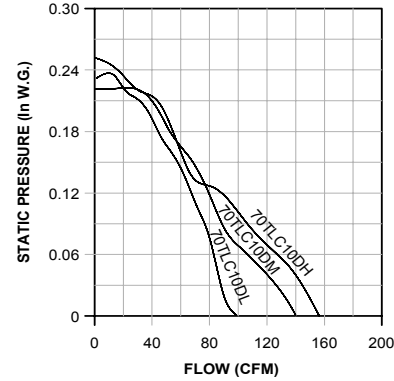
Refer to the corrosion resistance guide in the Compute-A-Fan software for a listing of the coatings above and their resistance to a variety of chemicals. Additional special coatings are available.

Model Number Chart

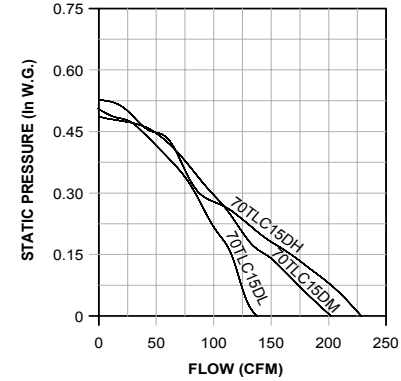
Direct Drive Models



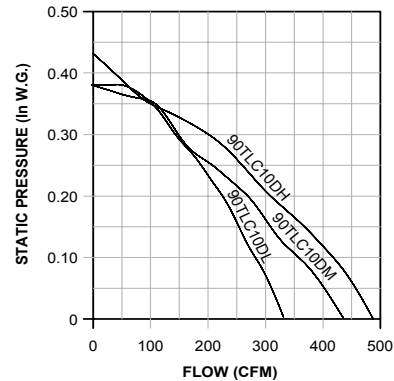
70TLC10DH, 70TLC10DM, 70TLC10DL



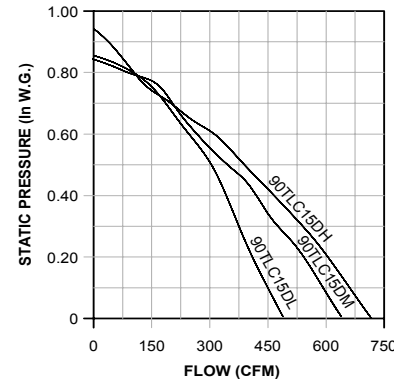
70TLC15DH, 70TLC15DM, 70TLC15DL



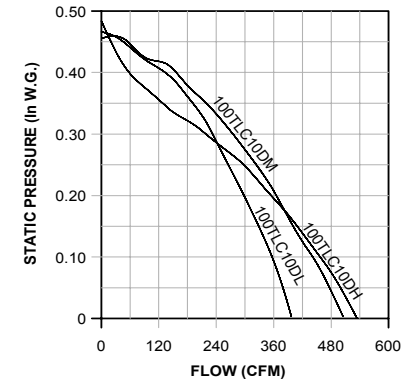
90TLC10DH, 90TLC10DM, 90TLC10DL



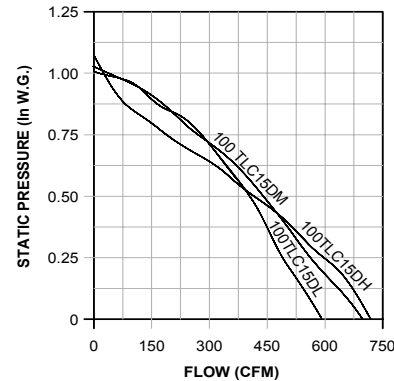
90TLC15DH, 90TLC15DM, 90TLC15DL



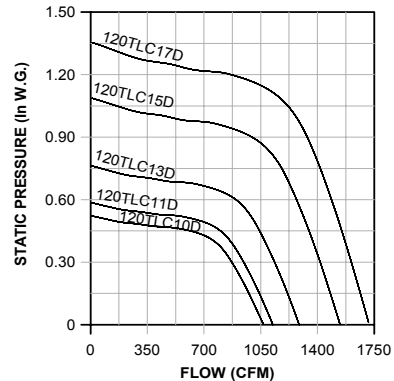
100TLC10DH, 100TLC10DM, 100TLC10DL



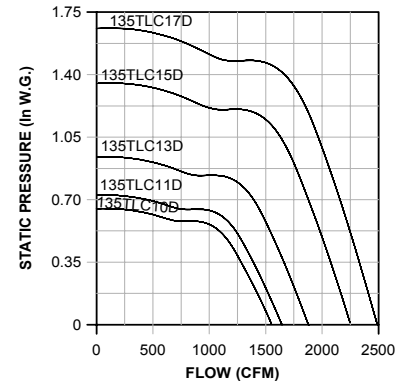
100TLC15DH, 100TLC15DM, 100TLC15DL



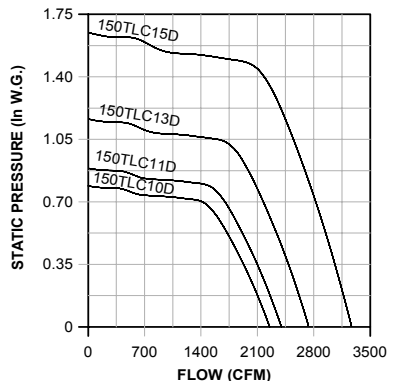
120TLC10D, 120TLC11D, 120TLC13D, 120TLC15D, 120TLC17D



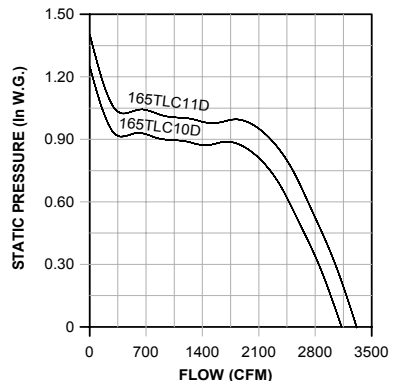
135TLC10D, 135TLC11D, 135TLC13D, 135TLC15D, 135TLC17D



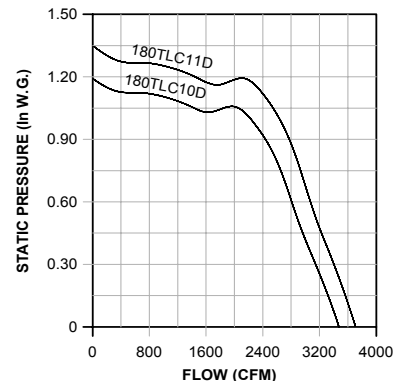
150TLC10D, 150TLC11D, 150TLC13D, 150TLC15D



165TLC10D, 165TLC11D



180TLC10D, 180TLC11D



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test for model sizes 70-100. All others are at constant RPM. Performance ratings do not include the effects of appurtenances (accessories).

TLC-D / TLCH-D

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																			
					0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1-1/4" SP	
					Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
70TLC10DH	1/25	1172	2148	71	156 83		3.1		2.4															
70TLC10DM		1176	2155	70	139 76		2.6		2.2															
70TLC10DL		1181	2164		97 6		2.3		2.4															
70TLC15DH	1/20	1644	3013	102	228 180		5.0		4.7		4.2		3.9											
70TLC15DM		1690	3097	94	201 156		4.6		4.3		3.9		3.9											
70TLC15DL		1715	3143	88	139 120		3.9		3.9		3.8		3.8											
90TLC10DH	1/25	1125	2688	89	488 394		4.8		4.2		3.8													
90TLC10DM		1145	2735	83	437 330		5.0		4.3		3.5													
90TLC10DL		1155	2759	79	329 263		4.3		3.8		3.3													
90TLC15DH	1/8	1585	3786	164	718 647		9.1		8.6		8.2		7.9		7.6		7.6		7.7					
90TLC15DM		1670	3989	124	642 581		10.0		9.5		9.1		8.6		8.2		7.5		6.8					
90TLC15DL		1710	4035	97	488 437		8.3		7.9		7.5		7.1		6.7		6.6		6.4					
100TLC10DH	1/25	1075	2850	105	534 433		5.5		5.0		4.9													
100TLC10DM		1125	2982	89	502 416		5.4		4.7		4.1		3.8											
100TLC10DL		1135	3009	85	396 341		6.3		5.9		5.3		5.3											
100TLC15DH	1/8	1550	4109	240	719 671		9.6		9.3		9.0		8.7		8.4		8.5		8.7					
100TLC15DM		1640	4347	142	700 637		10.8		10.3		9.8		9.4		9.0		8.7		8.5		8.3			
100TLC15DL		1660	4400	130	588 539		10.4		9.9		9.5		8.9		8.4		8.2		8.0		7.8			
120TLC10D	1/6	1075	3377	-	1061		7.8		.07		7.5		7.1		.08									
120TLC11D	1/6	1140	3581	-	1125		8.7		.09		8.4		8.1		.10		7.6		.11					
120TLC13D	1/4	1300	4084	-	1283		10.8		.13		10.6		10.4		.14		10.0		.15		9.8			
120TLC15D		1550	4869	-	1530		14.3		.22		14.3		14.2		.23		14.2		.24		14.0			
120TLC17D	1/2	1725	5419	-	1703		17.3		.31		17.1		17.2		.32		17.3		.33		17.2			
135TLC10D	1/6	1075	3799	-	1550		9.9		.11		9.5		9.2		.13		9.2		.14		8.1			
135TLC11D	1/6	1140	4029	-	1644		11.0		.13		10.6		10.3		.16		10.2		.17		9.4			
135TLC13D	1/2	1300	4595	-	1875		13.4		.19		13.1		12.8		.22		12.6		.24		12.5			
135TLC15D		1550	5478	-	2235		17.8		.33		17.6		17.4		.36		17.2		.38		17.0			
135TLC17D	3/4	1725	6097	-	2487		22		.46		21		21		.49		21		.51		21			
150TLC10D	1/3	1075	4222	-	2254		17.0		.21		17.1		16.8		.24		16.2		.25		15.8			
150TLC11D	1/3	1140	4477	-	2391		19.6		.25		19.6		19.4		.28		18.7		.29		18.3			
150TLC13D	3/4	1300	5105	-	2726		27		.37		27		27		.41		26		.42		25			
150TLC15D		1550	6087	-	3250		36		.62		36		36		.67		36		.69		35			
165TLC10D	1/2	1075	4644	-	3126		15.0		.45		14.7		14.4		.48		14.3		.50		14.2			
165TLC11D	3/4	1140	4924	-	3315		16.7		.54		16.5		16.3		.57		16.0		.59		15.9			
180TLC10D	3/4	1075	5066	-	3477		17.4		.50		17.1		16.8		.52		16.4		.54		16.1			
180TLC11D	3/4	1140	5372	-	3687		19.1		.60		18.7		18.4		.62		18.1		.64		17.8			

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test for model sizes 70-100. All others are at constant RPM. Performance ratings do not include the effects of appurtenances (accessories).

100-135 TLC-B / TLCH-B Data

100 TLC-B / TLCH-B

Wheel Diameter = 10

Tip Speed (FPM) = $2.6 \times \text{RPM}$

Maximum RPM = 1977

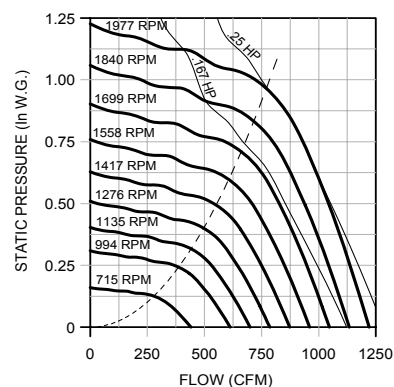
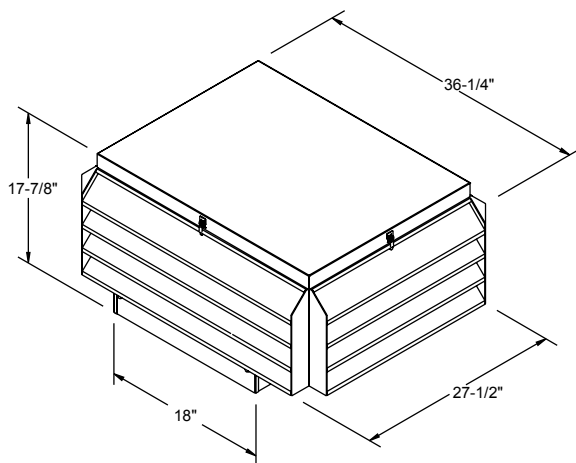
Maximum BHP = $.03 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 48

Approx. Ship Wt. (Less Motor) = 77 lbs.

Roof Curb* = RCG, RCA 16

Roof Opening* = $13\text{-}1/2"$ sq.



120 TLC-B / TLCH-B

Wheel Diameter = 12

Tip Speed (FPM) = $3.1 \times \text{RPM}$

Maximum RPM = 1710

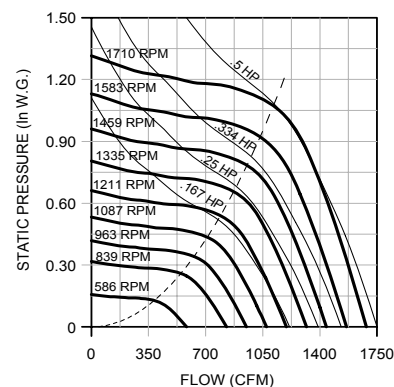
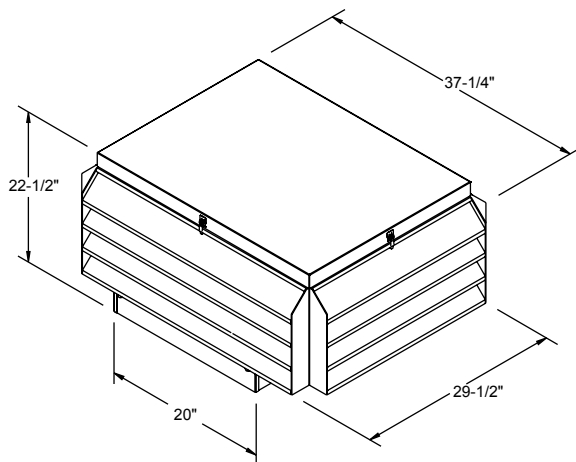
Maximum BHP = $.10 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 56

Approx. Ship Wt. (Less Motor) = 175 lbs.

Roof Curb* = RCG, RCA 18

Roof Opening* = $15\text{-}1/2"$ sq.



135 TLC-B / TLCH-B

Wheel Diameter = 13.5

Tip Speed (FPM) = $3.5 \times \text{RPM}$

Maximum RPM = 1739

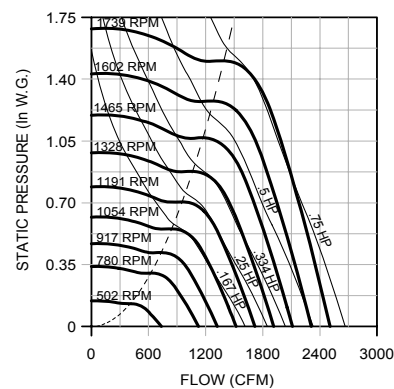
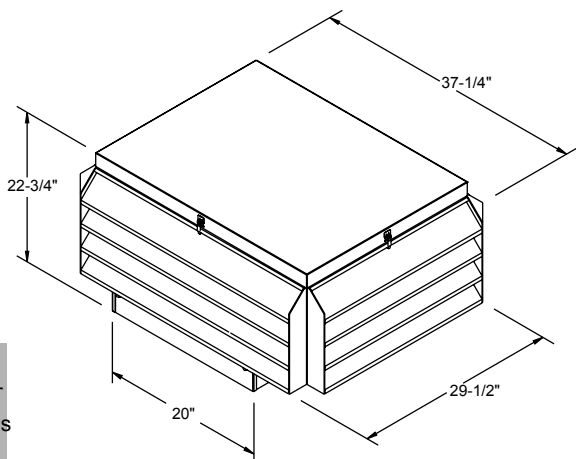
Maximum BHP = $.15 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 56

Approx. Ship Wt. (Less Motor) = 175 lbs.

Roof Curb* = RCG, RCA 18

Roof Opening* = $15\text{-}1/2"$ sq.



NOTE: Dimensions shown are for TLC-B.

*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

100 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																						
				0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		2" SP		
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		
100TLC-B/ 100TLCH-B	1/6	715	1871	440		280																				
				2.8	.01	2.5	.01																			
		916	2398	564		466																				
				4.8	.02	4.6	.02																			
		1117	2924	688		612		514																		
				7.3	.04	7.2	.04	6.7	.04																	
		1318	3450	812		749		676		583																
				10.8	.06	10.6	.07	10.0	.07	9.6	.07															
	1/4	1/4	1519	3976	936		882		823		755		670													
					13.7	.10	13.6	.10	13.1	.11	12.7	.11	12.4	.11												
			1720	4502	1060		1013		963		907		844		771											
					17.6	.14	17.5	.15	17.4	.15	16.9	.16	16.6	.16	16.3	.16										
	1784		4670	1099		1054		1006		953		895		829		733										
				19.0	.16	18.9	.16	18.8	.17	18.3	.18	17.9	.18	17.6	.18	17.3	.18									
	1848		4838	1138		1095		1049		999		944		883		808										
				20	.17	20	.18	20	.19	19.8	.20	19.4	.20	19.1	.20	18.8	.20									
	1912	5005	1178		1136		1092		1044		992		935		870											
			22	.19	22	.20	22	.21	21	.22	21	.22	21	.23	20	.22										
	1977	5175	1218		1177		1135		1090		1040		987		928											
			24	.21	24	.22	23	.23	23	.24	23	.24	22	.25	22	.25										

120 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		2" SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
120TLC-B/ 120TLCH-B	1/6	586	1840	578		390																			
				2.3	.02	1.4	.02																		
		781	2453	771		663																			
				4.2	.04	3.6	.05																		
		976	3066	963		881		783																	
	6.5			.08	6.2	.09	5.7	.09																	
	1172	3681	1157		1090		1016		930		779														
			9.1	.14	8.9	.15	8.5	.16	8.1	.16	7.9	.16													
	1/4	1260	3958	1244		1181		1115		1039		945													
				10.3	.18	10.1	.18	9.8	.19	9.4	.20	9.2	.20												
	1347	4231	1329		1272		1210		1142		1065		953												
			11.5	.22	11.3	.22	11.1	.23	10.8	.24	10.5	.25	10.3	.25											
	1/3	1418	4454	1400		1345		1287		1224		1155		1071											
				12.5	.26	12.3	.26	12.2	.27	12.0	.28	11.7	.28	11.5	.29										
		1489	4677	1470		1417		1363		1305		1241		1169		1069									
	13.5			.30	13.4	.30	13.3	.31	13.2	.32	12.9	.33	12.7	.33	12.5	.33									
1/2	1599	5023	1578		1530		1480		1427		1370		1308		1238										
			15.1	.37	15.1	.37	15.1	.38	15.1	.39	14.9	.40	14.6	.41	14.4	.41									
	1710	5372	1688		1642		1596		1548		1496		1441		1382		1218								
17.0			.45	16.9	.45	17.0	.46	17.0	.47	16.9	.48	16.7	.49	16.5	.50	15.9	.51								

135 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
135TLC-B/ 135TLCH-B	1/6	502	1774	724		419																			
				2.2	.02	2.1	.02																		
		769	2717	1109		978		814																	
				5.3	.05	5.1	.06	4.6	.07																
		1036	3661	1494		1400		1298		1184		1014													
				9.2	.13	8.8	.14	8.6	.15	8.4	.16	7.2	.16												
	1/4	1114	3937	1606		1520		1426		1324		1208													
				10.5	.16	10.1	.17	9.9	.19	9.8	.20	8.9	.20												
		1191	4209	1717		1636		1551		1458		1358		1227											
				11.8	.20	11.4	.21	11.1	.22	10.9	.24	10.4	.25	9.5	.25										
	1/3	1316	4651	1898		1825		1749		1668		1581		1489		1372									
				13.6	.27	13.3	.28	13.0	.30	12.9	.31	12.8	.33	12.1	.33	11.3	.33								
	1/2	1414	4997	2039		1971		1901		1828		1749		1667		1579									
				15.1	.34	14.8	.35	14.6	.36	14.5	.38	14.4	.40	14.3	.41	13.5	.42								
		1511	5340	2179		2115		2051		1983		1911		1836		1759		1563							
				17.1	.41	16.8	.42	16.6	.44	16.4	.46	16.2	.47	16.0	.49	15.7	.50	14.9	.50						
	3/4	1625	5743	2343		2284		2224		2163		2098		2030		1960		1808		1557					
				19.3	.51	19.1	.52	19.0	.54	18.8	.56	18.6	.58	18.5	.60	18.3	.61	17.8	.63	17.0	.61				
		1739	6146	2508		2453		2397		2340		2281		2219		2155		2020		1862		1453			
				22	.62	22	.64	22	.66	21	.67	21	.69	21	.72	21	.74	21	.77	19.9	.77	19.2	.72		

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

150-180 TLC-B/TLCH-B Data

150 TLC-B / TLCH-B

Wheel Diameter = 15

Tip Speed (FPM) = 3.9 x RPM

Maximum RPM = 1626

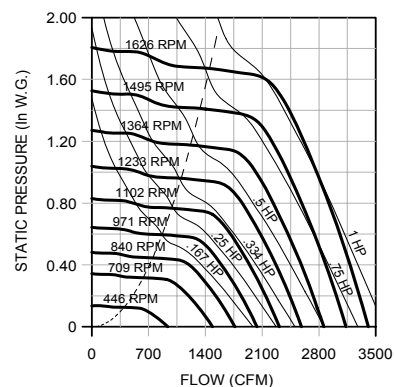
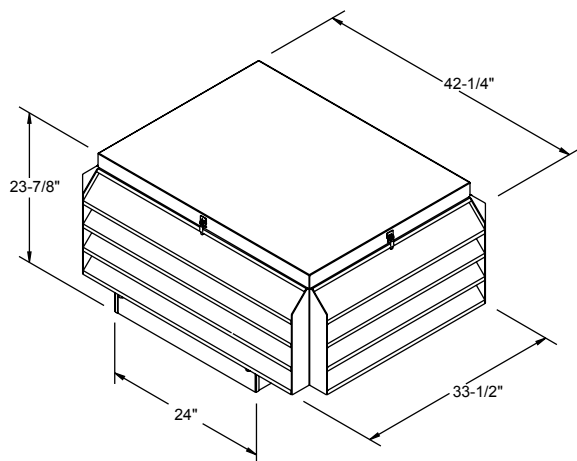
Maximum BHP = .24 x (RPM/1000)³

Maximum Motor Frame = 143T

Approx. Ship Wt. (Less Motor) = 205 lbs.

Roof Curb* = RCG, RCA 22

Roof Opening* = 19-1/2" sq.



165 TLC-B / TLCH-B

Wheel Diameter = 16.5

Tip Speed (FPM) = 4.3 x RPM

Maximum RPM = 1315

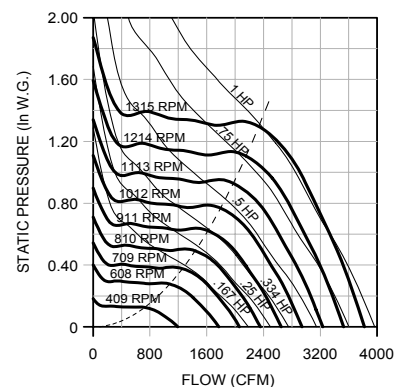
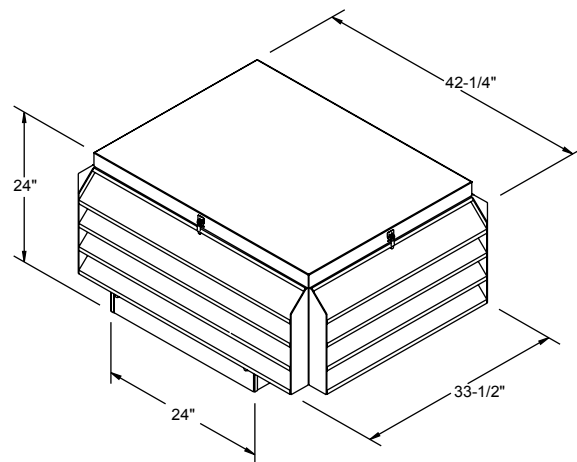
Maximum BHP = .46 x (RPM/1000)³

Maximum Motor Frame = 143T

Approx. Ship Wt. (Less Motor) = 205 lbs.

Roof Curb* = RCG, RCA 22

Roof Opening* = 19-1/2" sq.



180 TLC-B / TLCH-B

Wheel Diameter = 18

Tip Speed (FPM) = 4.7 x RPM

Maximum RPM = 1511

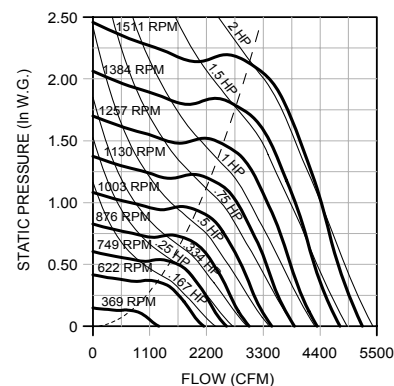
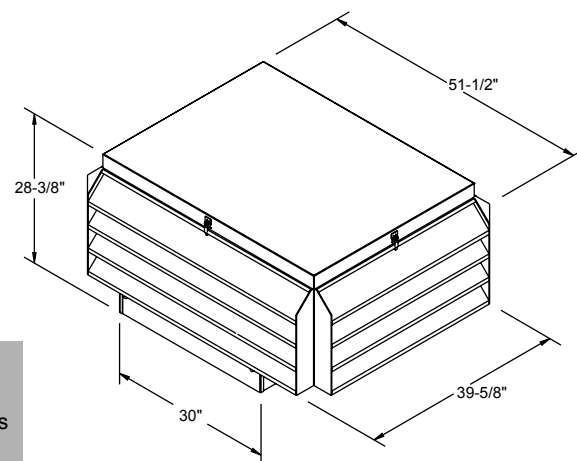
Maximum BHP = .61 x (RPM/1000)³

Maximum Motor Frame = 145T

Approx. Ship Wt. (Less Motor) = 245 lbs.

Roof Curb* = RCG, RCA 28

Roof Opening* = 25-1/2" sq.



NOTE: Dimensions shown are for TLC-B.
*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

150 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
150TLC-B/ 150TLCH-B	1/6	446	1751	935	437										
				2.7 .02	2.5 .02										
	878	3447		1841	1710	1554	1372								
				10.4 .13	10.7 .15	10.1 .16	9.7 .16								
	1/4	1009	3962	2116	2003	1878	1733	1570	1275						
				14.6 .20	14.7 .22	14.3 .23	13.8 .24	13.4 .25	13.1 .23						
	1/3	1116	4382	2340	2239	2130	2006	1870	1719	1487					
				18.6 .27	18.6 .29	18.4 .31	17.8 .32	17.4 .33	17.0 .33	16.8 .33					
	1/2	1198	4704	2512	2418	2319	2209	2086	1955	1807					
				22 .34	22 .36	22 .38	21 .39	21 .40	20 .41	20 .41					
	1281	5030		2686	2598	2507	2408	2298	2180	2054	1662				
				26 .41	26 .43	26 .45	25 .47	24 .48	24 .49	24 .50	23 .49				
	3/4	1377	5407	2888	2806	2722	2633	2535	2429	2318	2066				
				30 .51	30 .54	29 .56	29 .58	28 .59	28 .60	27 .61	27 .63				
	1474	5788		3091	3015	2937	2855	2768	2673	2573	2357	2079			
				33 .63	33 .65	33 .68	33 .70	32 .72	31 .73	31 .74	30 .77	30 .76			
	1	1550	6086	3250	3178	3104	3028	2947	2859	2766	2569	2343	1654		
				36 .73	36 .76	36 .78	36 .81	35 .82	35 .84	34 .85	33 .88	32 .90	32 .78		
	1626	6385		3410	3341	3271	3199	3123	3042	2956	2772	2572	2323		
				39 .84	39 .87	39 .90	39 .92	38 .94	38 .96	37 .98	36 1.00	36 1.03	35 1.03		

165 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
165TLC-B/ 165TLCH-B	1/6	409	1766	1182	730										
				2.2 .03	1.3 .03										
	710	3066		2065	1889	1658	1278								
				7.0 .14	6.5 .15	5.9 .16	5.3 .16								
	1/4	816	3524	2373	2224	2038	1827								
				8.9 .21	8.6 .23	8.1 .24	7.7 .25								
	1/3	902	3896	2623	2490	2335	2149	1943							
				10.8 .29	10.5 .30	10.0 .32	9.8 .33	9.3 .33							
	1/2	969	4185	2818	2695	2557	2389	2213	1985						
				12.3 .36	12.0 .37	11.7 .39	11.5 .41	11.2 .41	10.8 .41						
	1036	4475		3013	2898	2773	2624	2461	2288	2032					
				13.9 .44	13.7 .45	13.4 .47	13.2 .49	13.1 .50	12.7 .51	12.4 .50					
	3/4	1114	4812	3240	3133	3020	2891	2741	2589	2420					
				16.0 .54	15.8 .56	15.5 .58	15.3 .60	15.2 .62	15.0 .63	14.8 .63					
	1192	5149		3466	3367	3263	3149	3015	2873	2730	2319				
				18.1 .67	17.9 .68	17.7 .70	17.5 .72	17.3 .74	17.3 .76	17.0 .77	16.6 .76				
	1	1254	5416	3647	3552	3454	3349	3228	3095	2960	2650				
				19.7 .78	19.4 .79	19.2 .81	19.0 .83	18.8 .86	18.7 .88	18.7 .89	18.3 .89				
	1315	5680		3824	3734	3642	3543	3434	3310	3181	2913	2476			
				21 .90	21 .91	21 .93	21 .95	20 .98	20 1.00	20 1.02	19.9 1.03	19.5 1.01			

180 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
180TLC-B/ 180TLCH-B	1/6	369	1738	1275	767										
				2.5 .03	1.2 .03										
	644	3034		2225	1969	1757	1383								
				7.8 .14	7.2 .15	6.2 .16	4.7 .16								
	1/4	741	3491	2560	2322	2157	1942	1569							
				10.1 .21	9.5 .22	8.9 .24	7.5 .25	6.1 .24							
	1/3	819	3859	2830	2605	2450	2281	2072							
				12.1 .28	11.5 .30	10.9 .31	10.0 .33	8.6 .33							
	1/2	941	4434	3252	3047	2894	2769	2614	2436	2205					
				15.5 .43	14.9 .44	14.3 .46	13.8 .48	12.8 .50	11.5 .51	10.2 .50					
	3/4	1082	5098	3739	3556	3406	3289	3180	3049	2897	2516				
				19.4 .66	18.7 .67	18.2 .69	17.7 .71	17.1 .73	16.4 .75	15.1 .77	12.8 .76				
	1	1194	5626	4126	3958	3814	3696	3596	3496	3377	3098	2696			
				22 .88	22 .89	21 .91	21 .94	20 .96	19.6 .99	18.9 1.01	16.7 1.03	14.8 1.02			
	1-1/2	1371	6460	4737	4589	4455	4339	4239	4152	4067	3867	3627	3352		
				28 1.33	27 1.35	27 1.37	26 1.39	26 1.42	25 1.45	25 1.48	24 1.53	22 1.56	19.8 1.56		
	2	1441	6790	4979	4838	4707	4594	4495	4406	4325	4153	3932	3696		
				30 1.55	30 1.56	29 1.58	29 1.61	28 1.63	28 1.66	27 1.7	26 1.76	25 1.8	23 1.82		
	1511	7120		5221	5086	4960	4847	4748	4660	4581	4425	4231	4013	3416	
				33 1.79	32 1.8	32 1.82	31 1.84	31 1.87	30 1.9	30 1.94	29 2.01	28 2.06	26 2.09	22 2.06	

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

195-225 TLC-B / TLCH-B Data

195 TLC-B / TLCH-B

Wheel Diameter = 19.5

Tip Speed (FPM) = 5.1 x RPM

Maximum RPM = 1318

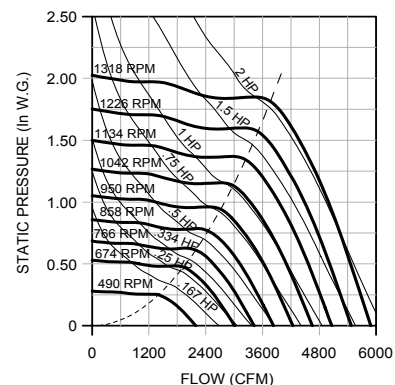
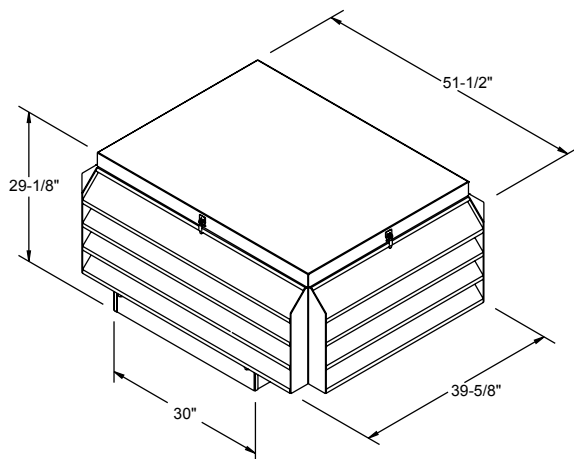
Maximum BHP = $.91 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 145T

Approx. Ship Wt. (Less Motor) = 245 lbs.

Roof Curb* = RCG, RCA 28

Roof Opening* = 25-1/2" sq.



210 TLC-B / TLCH-B

Wheel Diameter = 21

Tip Speed (FPM) = 5.5 x RPM

Maximum RPM (Standard Wheel) = 1277

Maximum RPM (Reinforced Wheel) = 1325

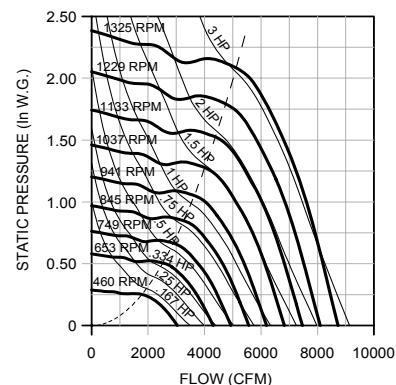
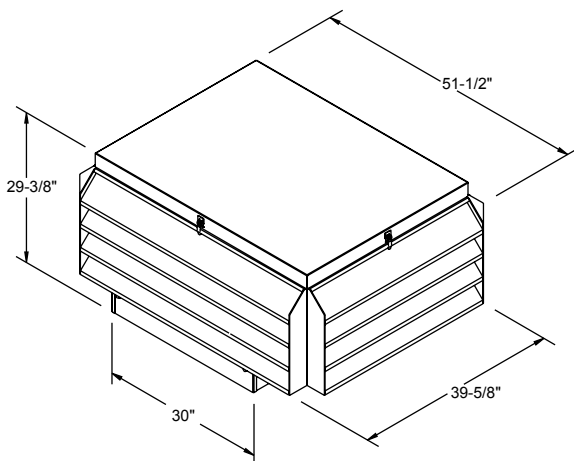
Maximum BHP = $1.4 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 280 lbs.

Roof Curb* = RCG, RCA 28

Roof Opening* = 25-1/2" sq.



225 TLC-B / TLCH-B

Wheel Diameter = 22.5

Tip Speed (FPM) = 5.9 x RPM

Maximum RPM (Standard Wheel) = 1152

Maximum RPM (Reinforced Wheel) = 1180

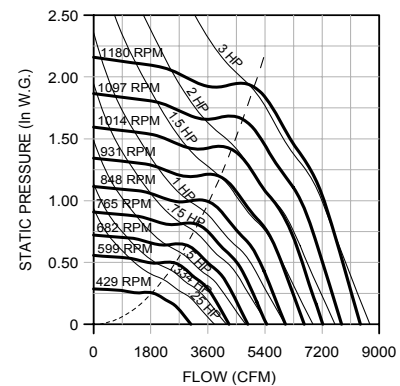
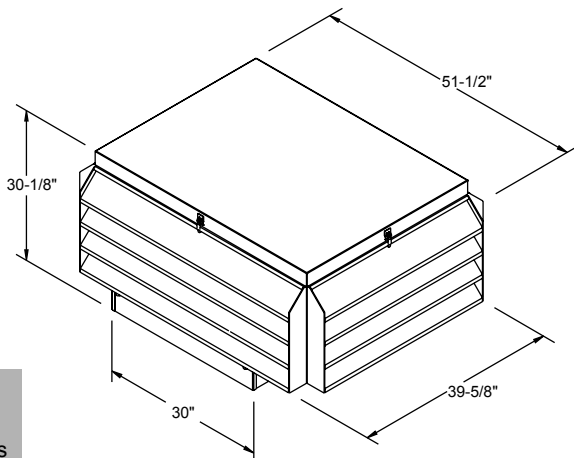
Maximum BHP = $1.9 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 285 lbs.

Roof Curb* = RCG, RCA 28

Roof Opening* = 25-1/2" sq.



NOTE: Dimensions shown are for TLC-B.

*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

195 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
195TLC-B/ 195 TLCH-B	1/6	490	2501	2188	1893	1407									
				5.9 .09	5.4 .10	4.8 .11									
	562	2869		2510	2258	1940									
				7.4 .14	6.9 .15	6.5 .16									
	1/4	646	3297	2885	2669	2427	2100								
				9.3 .21	8.8 .23	8.5 .24	8.0 .25								
	1/3	715	3650	3193	2999	2791	2540	2199							
				11.1 .28	10.7 .31	10.3 .32	9.9 .33	9.3 .33							
	1/2	821	4191	3667	3498	3323	3133	2905	2621						
				14.3 .43	13.9 .46	13.5 .48	13.2 .49	12.7 .50	12.2 .51						
	3/4	944	4819	4216	4070	3920	3765	3596	3403	3173					
				18.4 .65	18.0 .68	17.6 .71	17.3 .73	17.0 .75	16.6 .76	16.1 .77					
	1	1042	5319	4654	4521	4387	4249	4105	3949	3774	3340				
				22 .88	21 .91	21 .95	20 .97	20 .99	19.8 1.01	19.4 1.02	18.4 1.03				
	1-1/2	1196	6105	5341	5226	5110	4992	4871	4746	4614	4316	3947			
				26 1.33	26 1.37	25 1.41	25 1.44	25 1.47	24 1.50	24 1.51	24 1.54	23 1.56			
	2	1257	6417	5614	5504	5394	5282	5168	5051	4929	4663	4341	3952		
				28 1.54	28 1.58	27 1.62	27 1.66	27 1.7	26 1.73	26 1.75	26 1.78	25 1.80	24 1.82		
	1318	6728		5886	5782	5677	5570	5463	5352	5239	4995	4713	4375		
				30 1.78	29 1.82	29 1.86	29 1.91	28 1.94	28 1.97	28 2.00	28 2.04	27 2.07	26 2.09		

210 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
210TLC-B/ 210 TLCH-B	1/6	460	2528	3030	2623	1804									
				5.3 .11	5.0 .13	4.7 .13									
	492	2704		3241	2868	2280									
				6.0 .13	5.7 .16	5.4 .16									
	1/4	566	3111	3728	3412	3012	2277								
				7.7 .20	7.4 .24	7.0 .25	6.8 .24								
	1/3	626	3441	4123	3840	3517	3041								
				9.0 .28	8.8 .31	8.3 .33	8.1 .33								
	1/2	719	3952	4736	4491	4229	3914	3472							
				11.4 .42	11.1 .46	10.7 .49	10.3 .50	10.2 .50							
	3/4	827	4546	5447	5235	5016	4777	4492	4116	3650					
				14.7 .64	14.4 .69	14.0 .73	13.7 .76	13.3 .77	13.2 .77	13.1 .76					
	1	913	5019	6014	5822	5626	5419	5192	4922	4580					
				17.6 .86	17.3 .91	16.9 .97	16.6 1.00	16.3 1.02	16.0 1.03	15.8 1.03					
	1-1/2	1048	5761	6903	6736	6567	6394	6212	6016	5797	5226	4437			
				23 1.29	22 1.36	22 1.42	22 1.48	21 1.52	21 1.55	21 1.56	20 1.56	20 1.55			
	2	1155	6349	7608	7457	7304	7149	6989	6822	6644	6228	5675	4964		
				26 1.73	26 1.81	26 1.88	25 1.94	25 2.00	25 2.04	24 2.07	24 2.09	24 2.09	23 2.07		
	3	1325	7284	8728	8596	8464	8330	8194	8055	7911	7605	7251	6807	5603	
				32 2.62	32 2.70	31 2.78	31 2.86	31 2.94	30 3.00	30 3.05	30 3.12	29 3.15	29 3.16	28 3.12	

225 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
225TLC-B/ 225 TLCH-B	1/4	429	2527	3056	2665	1890									
				6.2 .13	5.8 .15	5.2 .15									
	504	2968		3590	3264	2791									
				8.2 .21	7.8 .23	7.3 .24									
	1/3	558	3286	3975	3681	3351	2745								
				9.7 .29	9.2 .31	8.8 .33	8.3 .33								
	1/2	640	3769	4559	4304	4040	3680	3121							
				12.2 .43	11.7 .46	11.3 .48	10.9 .50	10.3 .50							
	3/4	737	4341	5250	5029	4804	4565	4227	3728						
				15.7 .66	15.2 .69	14.8 .72	14.5 .74	14.1 .76	13.5 .77						
	1	813	4788	5792	5591	5389	5181	4950	4602	4145					
				18.7 .88	18.3 .92	17.9 .96	17.5 .99	17.2 1.00	16.8 1.02	16.2 1.03					
	1-1/2	933	5495	6647	6472	6296	6119	5937	5740	5490	4723				
				24 1.33	23 1.38	23 1.42	23 1.46	22 1.49	22 1.51	22 1.53	21 1.56				
	2	1029	6061	7331	7172	7013	6853	6691	6525	6346	5829	5126			
				28 1.79	27 1.84	27 1.89	27 1.93	26 1.97	26 2.00	26 2.03	25 2.07	24 2.09			
	3	1105	6509	7872	7724	7577	7428	7278	7126	6969	6602	5979	5365		
				31 2.21	31 2.27	30 2.32	30 2.38	29 2.42	29 2.46	29 2.49	28 2.53	27 2.58	26 2.58		
	1180	6950		8406	8268	8130	7991	7851	7710	7567	7259	6840	6198		
				34 2.7	34 2.76	33 2.81	33 2.87	32 2.92	32 2.97	32 3.00	31 3.06	31 3.11	30 3.15		

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

245-300 TLC-B / TLCH-B Data

245 TLC-B / TLCH-B

Wheel Diameter = 24.5

Tip Speed (FPM) = $6.4 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 1015

Maximum RPM (Reinforced Wheel) = 1018

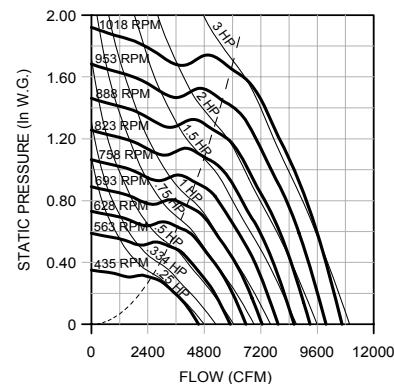
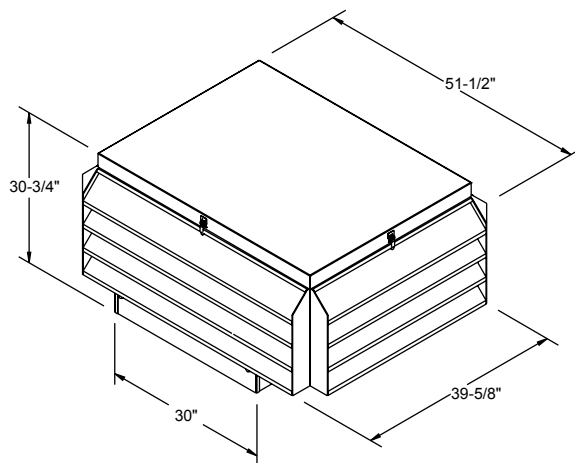
Maximum BHP = $3.0 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 290 lbs.

Roof Curb* = RCG, RCA 28

Roof Opening* = $25\text{-}1/2"$ sq.



270 TLC-B / TLCH-B

Wheel Diameter = 27

Tip Speed (FPM) = $7.1 \times \text{RPM}$

Maximum RPM = 867

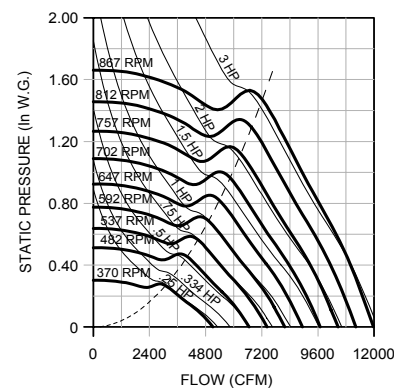
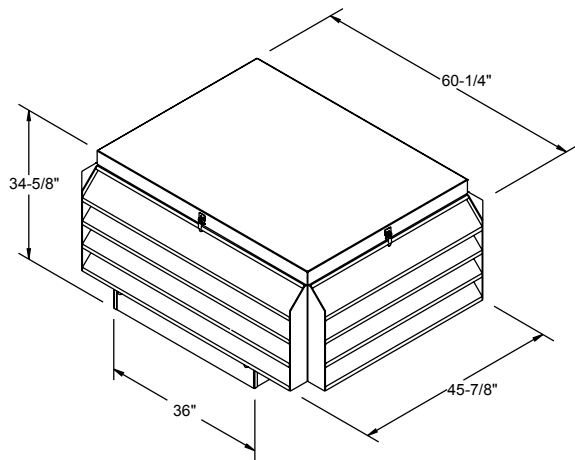
Maximum BHP = $4.8 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 385 lbs.

Roof Curb* = RCG, RCA 34

Roof Opening* = $31\text{-}1/2"$ sq.



300 TLC-B / TLCH-B

Wheel Diameter = 30

Tip Speed (FPM) = $7.9 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 837

Maximum RPM (Reinforced Wheel) = 997

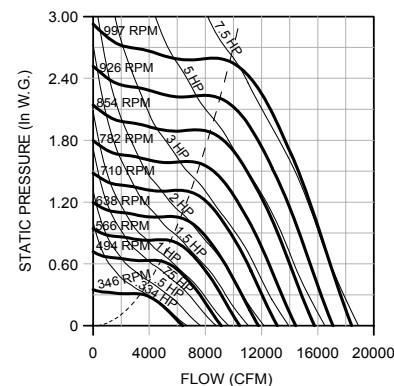
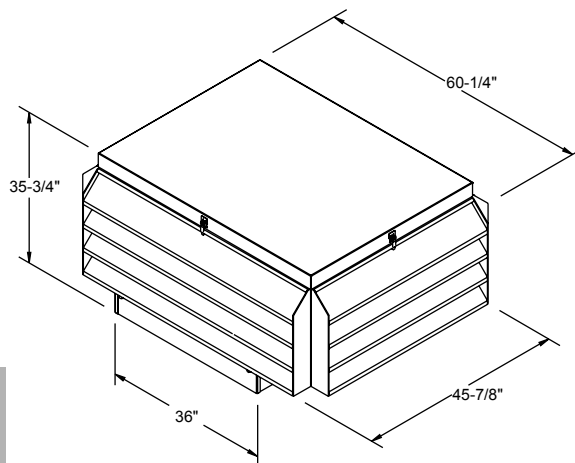
Maximum BHP = $8.0 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 405 lbs.

Roof Curb* = RCG, RCA 34

Roof Opening* = $31\text{-}1/2"$ sq.



NOTE: Dimensions shown are for TLC-B.

*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

245 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
245TLC-B/ 245TLCH-B	1/4	435	2790	4554	4019	3195									
				7.6 .21	7.1 .24	6.6 .24									
	1/3	481	3085	5035	4566	3891									
				9.1 .29	8.5 .32	8.1 .33									
	1/2	552	3540	5778	5379	4890	4207								
				11.4 .44	10.8 .47	10.3 .50	9.9 .50								
	3/4	594	3809	6218	5850	5424	4839	4170							
				12.8 .54	12.2 .58	11.8 .61	11.4 .63	10.8 .61							
	635	4072		6647	6305	5923	5434	4822	3992						
				14.3 .67	13.8 .71	13.4 .74	13.0 .77	12.4 .76	11.9 .72						
	1	701	4496	7338	7030	6699	6311	5811	5256	4543					
				17.0 .90	16.6 .94	16.1 .98	15.7 1.02	15.4 1.03	14.9 1.02	14.3 .98					
	1-1/2	805	5163	8427	8159	7881	7579	7230	6805	6317	5108				
				22 1.36	21 1.41	21 1.46	20 1.50	20 1.54	19.9 1.56	19.4 1.56	18.3 1.47				
	2	887	5689	9285	9043	8794	8532	8244	7916	7528	6652				
				26 1.81	25 1.87	25 1.92	24 1.98	24 2.03	24 2.07	24 2.09	23 2.07				
	3	953	6112	9976	9751	9521	9283	9027	8746	8429	7647	6829			
				29 2.25	29 2.31	28 2.37	28 2.43	28 2.48	27 2.53	27 2.57	26 2.59	25 2.55			
	1018	6529		10656	10446	10232	10012	9781	9532	9260	8605	7835	7027		
				33 2.74	32 2.81	32 2.87	31 2.93	31 2.99	30 3.05	30 3.10	30 3.16	29 3.14	28 3.07		

270 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
270TLC-B/ 270TLCH-B	1/4	370	2615	5112	4299	3259									
				6.5 .22	5.8 .24	4.6 .24									
	1/3	409	2891	5651	4956	4012									
				7.8 .30	7.0 .32	6.2 .33									
	1/2	470	3322	6494	5922	5132	4328								
				10.1 .46	9.2 .48	8.7 .50	7.5 .50								
	3/4	506	3576	6991	6470	5777	5008								
				11.5 .57	10.7 .59	10.0 .62	9.2 .63								
	541	3824		7475	6993	6384	5652	4964							
				13.1 .70	12.2 .72	11.5 .75	10.9 .76	9.7 .77							
	1	597	4219	8249	7817	7311	6671	6018	5395						
				15.6 .94	14.8 .96	13.9 .99	13.4 1.02	12.6 1.03	11.4 1.03						
	1-1/2	685	4841	9465	9092	8687	8197	7625	7050	6510					
				19.4 1.41	18.8 1.44	17.8 1.47	17.3 1.51	16.9 1.54	16.1 1.55	14.9 1.55					
	2	755	5336	10432	10095	9740	9335	8856	8329	7808	6821				
				23 1.89	22 1.92	21 1.95	20 1.99	20 2.04	19.6 2.07	18.9 2.08	16.8 2.08				
	3	811	5732	11206	10893	10568	10211	9797	9327	8833	7894	6938			
				25 2.35	25 2.38	24 2.41	23 2.45	23 2.5	22 2.54	22 2.56	20 2.58	18.2 2.57			
	867	6128		11979	11688	11387	11064	10703	10291	9840	8928	8073			
				28 2.87	28 2.9	27 2.93	26 2.97	25 3.02	25 3.08	25 3.12	24 3.14	22 3.15			

300 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
300TLC-B/ 300TLCH-B	1/3	346	2717	6388	5492	4402									
				7.3 .29	5.8 .32	4.8 .33									
	1/2	397	3118	7329	6536	5721	4537								
				9.2 .44	7.6 .48	6.9 .49	5.8 .49								
	3/4	457	3589	8437	7734	7082	6280	5183							
				11.7 .67	10.0 .72	9.2 .73	8.3 .75	7.4 .75							
	1	504	3958	9305	8661	8071	7429	6631	5503						
				13.8 .89	12.2 .95	11.2 .98	10.6 .99	9.5 1.02	8.6 .99						
	1-1/2	579	4547	10689	10123	9597	9085	8508	7824	7020					
				17.6 1.35	16.0 1.43	14.8 1.47	14.2 1.49	13.5 1.51	12.4 1.54	11.5 1.55					
	2	638	5010	11779	11263	10774	10312	9836	9292	8668	6982				
				20 1.81	19.0 1.90	17.8 1.95	17.0 1.98	16.4 2.00	15.6 2.02	14.6 2.05	12.9 2.01				
	3	732	5749	13514	13063	12625	12211	11811	11400	10950	9887	8546			
				25 2.74	24 2.83	23 2.91	22 2.97	21 3.00	20 3.02	20 3.04	18.2 3.11	16.7 3.11			
	5	801	6291	14788	14375	13971	13583	13213	12846	12470	11610	10596	9331		
				29 3.59	28 3.69	27 3.79	26 3.86	25 3.9	24 3.93	24 3.95	22 4.00	21 4.09	19.2 4.08		
	870	6832		16062	15681	15306	14943	14595	14256	13918	13201	12359	11406		
				33 4.60	32 4.71	31 4.82	30 4.91	29 4.97	28 5.01	27 5.04	26 5.08	25 5.15	23 5.25		
	7-1/2	997	7830	18407	18074	17744	17420	17109	16801	16504	15914	15296	14599	12964	
				42 6.92	41 7.05	40 7.18	38 7.29	37 7.39	36 7.46	35 7.52	34 7.59	33 7.64	32 7.70	29 7.92	

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

330-402 TLC-B / TLCH-B Data

330 TLC-B / TLCH-B

Wheel Diameter = 33

Tip Speed (FPM) = $8.6 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 716

Maximum RPM (Reinforced Wheel) = 880

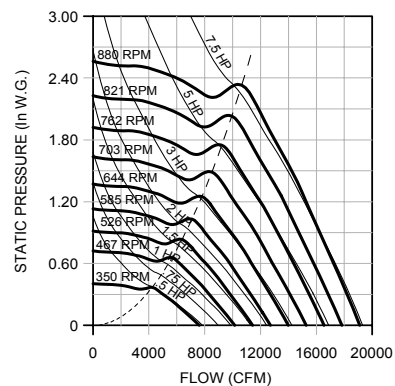
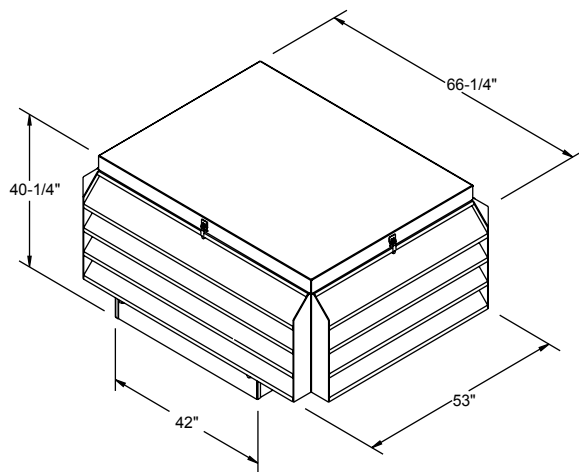
Maximum BHP = $11.7 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 475 lbs.

Roof Curb = RCG, RCA 40

Roof Opening = $37\text{-}1/2"$ sq.



365 TLC-B / TLCH-B

Wheel Diameter = 36.5

Tip Speed (FPM) = $9.6 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 624

Maximum RPM (Reinforced Wheel) = 728

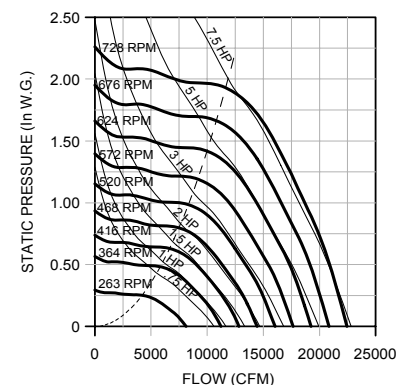
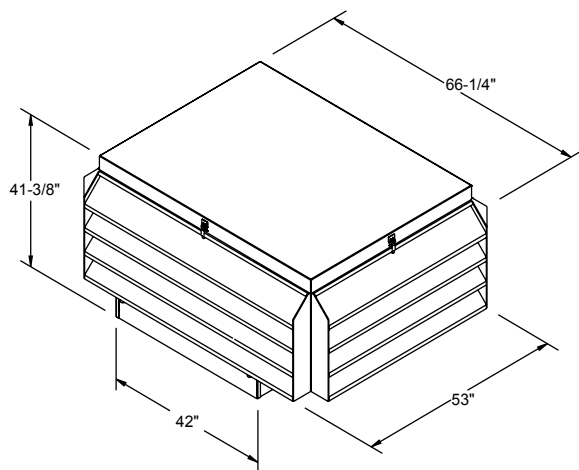
Maximum BHP = $20.5 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 485 lbs.

Roof Curb = RCG, RCA 40

Roof Opening = $37\text{-}1/2"$ sq.



402 TLC-B

Wheel Diameter = 40.25

Tip Speed (FPM) = $10.5 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 539

Maximum RPM (Reinforced Wheel) = 611

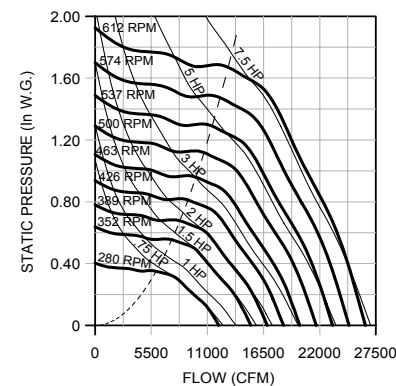
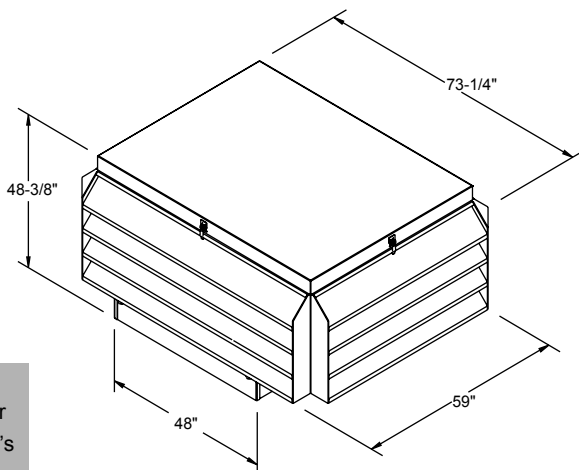
Maximum BHP = $34.7 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 565 lbs.

Roof Curb = RCG, RCA 46

Roof Opening = $43\text{-}1/2"$ sq.



NOTE: Dimensions shown are for TLC-B.

*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories) in the airstream.

330 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
300TLC-B/ 300TLCH-B	1/2	350	3023	7601		6606		5538																	
				9.0	.46	8.1	.47	7.4	.49																
	3/4	403	3481	8752		7905		7004		5984															
				11.6	.70	10.6	.71	10.0	.73	9.0	.75														
	1	444	3835	9642		8884		8058		7234		6236													
				13.8	.93	13.0	.94	12.3	.97	11.7	.99	10.3	1.01												
	1-1/2	477	4120	10359		9658		8893		8142		7279		6371											
				15.7	1.16	15.0	1.17	14.1	1.19	13.6	1.22	12.5	1.24	11.3	1.26										
		510	4406	11075		10424		9715		9005		8276		7400		6556									
				17.6	1.41	17.0	1.42	16.0	1.45	15.6	1.48	15.0	1.51	13.7	1.52	12.5	1.55								
	2	562	4855	12204		11617		10988		10332		9698		9015		8212									
				21	1.89	20	1.90	19.2	1.92	18.6	1.96	18.2	1.99	17.5	2.02	16.3	2.04								
	3	604	5218	13116		12572		11996		11387		10786		10195		9526		8078							
				23	2.35	23	2.36	22	2.38	21	2.41	20	2.45	20	2.49	19.1	2.51	17.2	2.57						
		646	5581	14029		13520		12989		12426		11856		11304		10741		9389		7910					
				26	2.87	25	2.88	24	2.90	23	2.93	23	2.97	23	3.01	22	3.05	19.9	3.10	18.1	3.11				
	5	767	6626	16656		16229		15794		15339		14864		14381		13905		12977		11908		10738			
				34	4.80	34	4.82	33	4.84	32	4.86	31	4.90	30	4.94	30	4.99	29	5.09	28	5.15	26	5.21		
	7-1/2	880	7602	19110		18739		18363		17978		17578		17165		16745		15913		15107		14237		12224	
				43	7.26	43	7.27	42	7.29	41	7.32	40	7.35	40	7.39	45	7.44	38	7.55	37	7.66	36	7.75	32	7.88

365 TLC-B / TLCH-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
365TLC-B/ 365TLCH-B	3/4	263	2513	8113		6831		4326																	
				6.8	.34	5.3	.37	4.2	.34																
		334	3191	10304		9439		8132		6358															
	10.1			.69	8.3	.74	7.6	.77	6.6	.74															
	1	368	3516	11352		10589		9504		8185															
				11.9	.92	10.0	.98	9.3	1.02	8.3	1.02														
	1-1/2	396	3784	12216		11516		10599		9416		7986													
				13.6	1.15	11.7	1.21	10.7	1.26	9.9	1.28	8.9	1.24												
		423	4042	13049		12399		11607		10529		9361		7578											
	15.1			1.4	13.4	1.47	12.2	1.53	11.6	1.55	10.5	1.54	9.5	1.48											
	2	466	4452	14376		13791		13131		12244		11238		10137		8522									
				17.9	1.87	16.2	1.95	14.8	2.02	14.2	2.06	13.4	2.08	12.3	2.06	11.4	1.99								
	3	535	5112	16504		15999		15460		14828		14017		13141		12235		9581							
				22	2.84	22	2.92	19.5	3.01	18.6	3.08	18.0	3.12	17.3	3.14	16.4	3.14	14.6	2.99						
	5	636	6077	19620		19196		18761		18294		17768		17134		16406		14923		13173					
				29	4.76	28	4.87	27	4.97	25	5.07	25	5.15	24	5.22	24	5.26	22	5.28	20	5.19				
	7.5	682	6516	21039		20644		20241		19819		19358		18832		18208		16837		15409		13602			
				33	5.88	31	5.99	30	6.1	29	6.2	28	6.3	27	6.39	27	6.45	26	6.51	24	6.49	22	6.34		
		728	6956	22458		22089		21713		21324		20910		20458		19934		18689		17401		15997			
	36			7.15	35	7.26	34	7.38	33	7.5	31	7.61	31	7.71	30	7.79	29	7.89	28	7.93	26	7.86			

402 TLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
402TLC-B	3/4	280	2950	12132		10878		8855																	
				11.5	.68	8.1	.74	7.2	.75																
	1	309	3256	13389		12304		10573		8719															
				13.7	.91	10.0	.99	8.9	1.02	8.2	1.01														
	1-1/2	355	3740	15382		14469		13235		11552		9929													
				17.2	1.39	13.5	1.47	11.9	1.54	10.9	1.53	10.2	1.52												
	2	391	4120	16942		16123		15132		13701		12232		10591											
				20	1.85	16.5	1.94	14.4	2.03	13.4	2.07	12.5	2.04	11.8	2.02										
	3	420	4425	18199		17442		16576		15387		13936		12653		10492									
				22	2.30	19.2	2.39	16.8	2.49	15.8	2.57	14.9	2.54	14.0	2.53	13.2	2.44								
	3	449	4731	19455		18750		17973		16980		15672		14369		13166									
				25	2.81	22	2.91	19.5	3.01	18.4	3.11	17.5	3.13	16.6	3.09	15.8	3.09								
	5	491	5173	21275		20633		19948		19146		18106		16864		15691		13001							
				28	3.67	26	3.78	24	3.90	22	4.01	21	4.09	20	4.08	19.5	4.04	18.0	3.98						
	5	533	5616	23095		22505		21889		21205		20372		19339		18182		16110		12042					
				32	4.69	30	4.82	28	4.94	26	5.06	25	5.18	25	5.25	24	5.21	22	5.17	20	4.75				
7-1/2	573	6037	24828		24280		23715		23108		22410		21563		20556		18472		16549						
			37	5.83	35	5.97	33	6.10	31	6.23	30	6.36	29	6.47	28	6.52	26	6.42	25	6.42					
7-1/2	612	6448	26518		26006		25481		24927		24320		23608		22767		20788		18973		16975				
			41	7.11	39	7.25	37	7.39	36	7.53	35	7.67	34	7.81	33	7.91	31	7.89	29	7.82	25	7.80			

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

445-540 TLC-B Data

445 TLC-B

Wheel Diameter = 44.5

Tip Speed (FPM) = $11.7 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 463

Maximum RPM (Reinforced Wheel) = 520

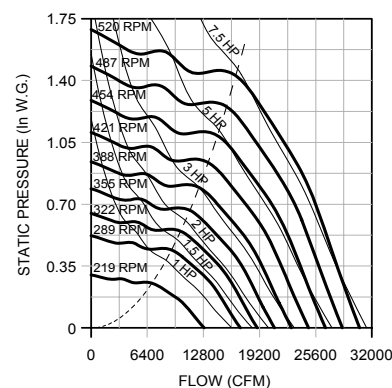
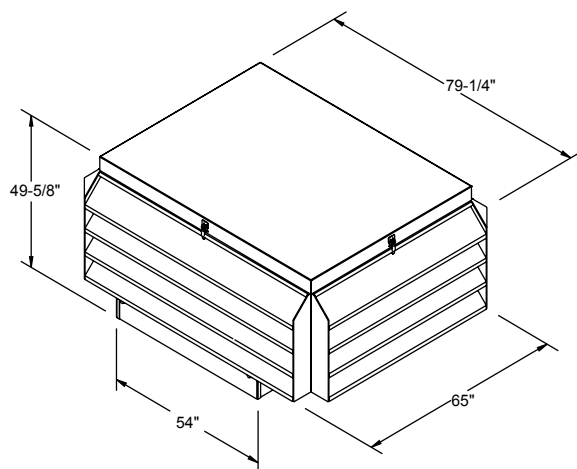
Maximum BHP = $56.4 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 635 lbs.

Roof Curb = RCG, RCA 52

Roof Opening = $49\text{-}1/2"$ sq.



490 TLC-B

Wheel Diameter = 49

Tip Speed (FPM) = $12.8 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 360

Maximum RPM (Reinforced Wheel) = 434

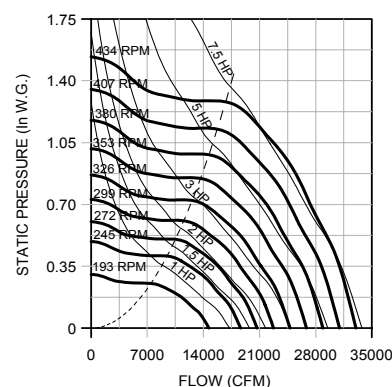
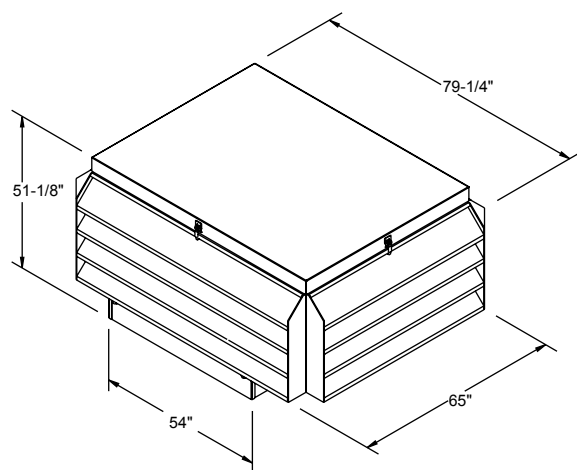
Maximum BHP = $96.9 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 665 lbs.

Roof Curb = RCG, RCA 52

Roof Opening = $49\text{-}1/2"$ sq.



540 TLC-B

Wheel Diameter = 54

Tip Speed (FPM) = $14.1 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 347

Maximum RPM (Reinforced Wheel) = 414

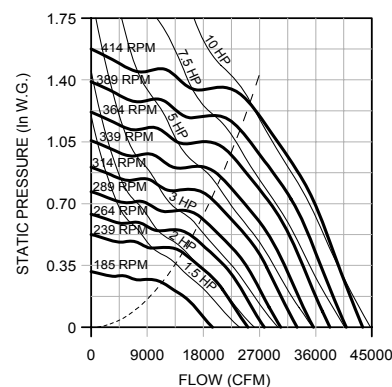
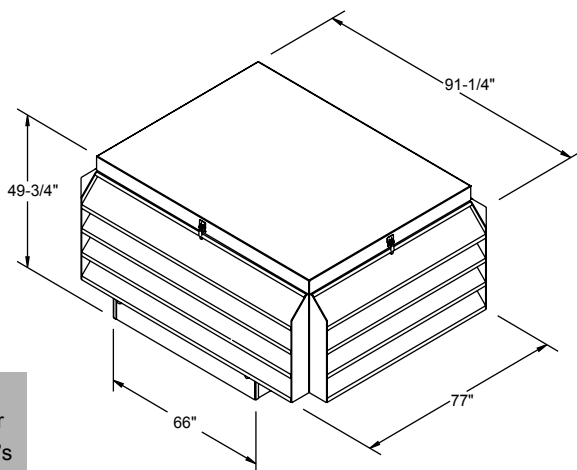
Maximum BHP = $148.3 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 215T

Approx. Ship Wt. (Less Motor) = 790 lbs.

Roof Curb = RCG, RCA 64

Roof Opening = $61\text{-}1/2"$ sq.



NOTE: Dimensions shown are for TLC-B.
*Roof Curb and Roof Opening shown are for TLC-B. Hurricane Resistant model TLCH-B's housing, roof curb, and roof opening dimensions are different.

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories) in the airstream.

445 TLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
445TLC-B	1	219	2551	12887		10766		7136																	
				8.9	.52	5.8	.59	5.3	.54																
		262	3052	15417		13638		11489																	
	12.0			.89	8.3	.99	7.6	1.01																	
	1-1/2	301	3506	17712		16138		14607		12220															
				15.1	1.34	11.5	1.47	9.9	1.53	9.3	1.52														
	2	332	3867	19536		18097		16749		15041		12581													
				17.9	1.80	14.2	1.95	12.0	2.03	11.5	2.06	10.7	2.01												
	3	356	4147	20948		19601		18340		16959		14914		12502											
				19.9	2.22	16.4	2.38	13.7	2.49	13.1	2.54	12.4	2.53	11.8	2.41										
		381	4438	22419		21156		19965		18765		17165		15038		12601									
	22			2.73	18.8	2.90	15.9	3.02	15.0	3.10	14.4	3.12	13.6	3.07	12.9	2.89									
	5	417	4858	24538		23379		22271		21208		20022		18409		16437									
				25	3.57	22	3.77	19.6	3.92	18.0	4.02	17.4	4.08	16.9	4.08	16.0	4.02								
		453	5277	26656		25587		24553		23570		22568		21388		19828		16104							
29	4.58			26	4.79	23	4.97	21	5.10	21	5.19	20	5.24	19.5	5.23	18.0	5.00								
7-1/2	487	5673	28657		27661		26690		25762		24853		23882		22706		19516								
			32	5.69	29	5.92	27	6.12	25	6.28	24	6.40	23	6.47	23	6.51	21	6.43							
	520	6058	30598		29665		28749		27867		27016		26152		25204		22616		19399						
36			6.93	33	7.18	31	7.40	29	7.58	27	7.72	27	7.83	26	7.90	25	7.91	23	7.68						

490 TLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
490TLC-B	1	193	2475	14682		12485		7952																	
				9.2	.62	6.0	.68	5.3	.62																
		219	2809	16660		15009		12090																	
	1-1/2	252	3232	19170		17898		15638		12490															
				14.2	1.37	10.2	1.45	9.1	1.54	8.4	1.48														
	2	277	3553	21072		19956		18053		15898		12213													
				16.7	1.82	12.6	1.91	11.1	2.01	10.3	2.06	9.7	1.88												
	3	297	3809	22594		21571		20018		18016		15307													
				18.8	2.24	14.9	2.34	13.1	2.44	12.0	2.53	11.2	2.46												
		318	4079	24191		23246		21985		20053		18135		15039											
				21	2.75	17.3	2.85	15.4	2.96	14.2	3.08	13.3	3.11	12.3	2.92										
	5	348	4464	26473		25620		24610		22972		21301		19342		16421									
				24	3.61	21	3.72	18.1	3.83	16.9	3.96	16.0	4.06	15.1	4.05	14.3	3.82								
		378	4849	28756		27974		27103		25872		24194		22717		20769									
				27	4.62	24	4.74	21	4.86	19.9	5.00	18.9	5.14	18.1	5.23	17.3	5.18								
7-1/2	406	5208	30886		30163		29379		28398		26938		25453		24055		19587								
			31	5.73	27	5.86	25	5.98	23	6.12	22	6.28	21	6.41	20	6.48	18.7	6.12							
	434	5567	33016		32340		31623		30793		29642		28153		26846		23648		18458						
			34	7.00	31	7.13	28	7.27	26	7.41	25	7.57	24	7.74	23	7.86	22	7.82	20	7.11					

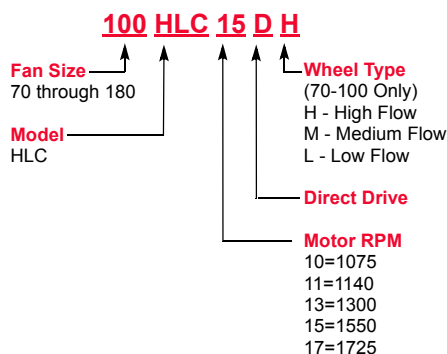
540 TLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																																			
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP															
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP														
540TLC-B	1-1/2	185	2615	19452		16411		11523																															
				9.7	.82	6.5	.93	5.9	.89																														
		218	3081	22922		20322		17242																															
	2	240	3392	25235		22848		20448		16578																													
				15.0	1.79	11.1	1.97	9.8	2.05	9.1	2.01																												
	3	276	3901	29021		26917		24949		22502		18942																											
				19.0	2.72	15.2	2.94	12.7	3.07	12.2	3.12	11.5	3.05																										
	5	302	4269	31754		29821		28010		26107		23375		20004																									
				22	3.57	18.4	3.81	15.5	3.98	14.8	4.07	14.1	4.07	13.3	3.95																								
		328	4637	34488		32703		31008		29351		27337		24542		21400																							
	7-1/2	352	4976	25		4.57		22		4.84		18.7		5.05		17.4		5.17		16.8		5.23		16.1		5.2		15.3		5.03									
				37012	35343	33742	32214	30567	28399	25643																													
		376	5315	28		5.65		25		5.94		22		6.18		19.7		6.34		19.0		6.44		18.4		6.47		17.7		6.4									
	10	395	5584	39535		37971		36456		35016		33556		31856		29614		24206																					
				41533	40043	38592	37206	35841	34360	32516	27615																												
414		5852	33		7.99		30		8.32		27		8.61		25		8.83		24		8.99		23		9.09		22		9.14		21		8.97						
				43531		42108		40716		39380		38083		36736		35186		30894		25833																			
				36		9.20		33		9.54		30		9.86		28		10.11		26		10.29		25		10.42		25		10.5		23		10.45		22		9.96	

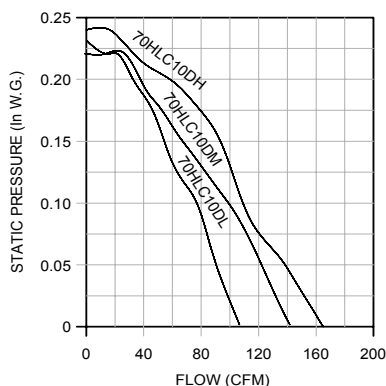
Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

Model Number Chart

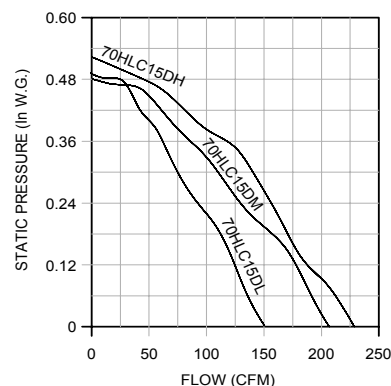
Direct Drive Models



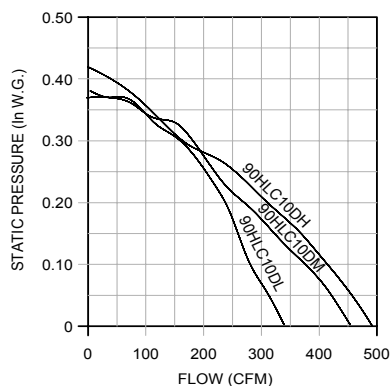
70HLC10DH, 70HLC10DM, 70HLC10DL



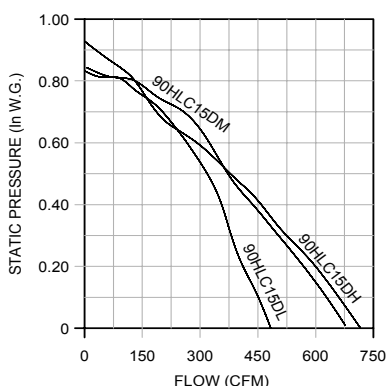
70HLC15DH, 70HLC15DM, 70HLC15DL



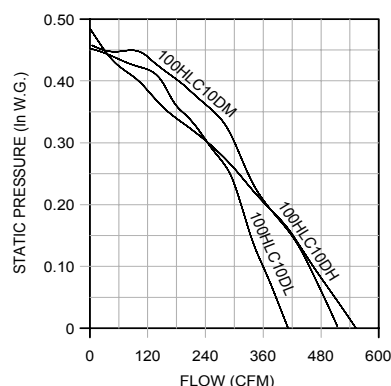
90HLC10DH, 90HLC10DM, 90HLC10DL



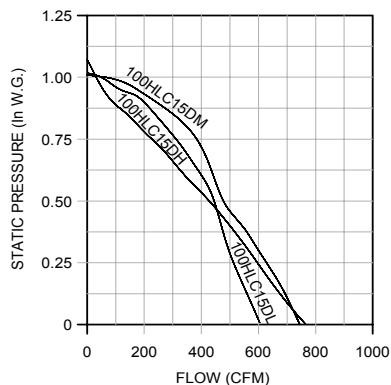
90HLC15DH, 90HLC15DM, 90HLC15DL



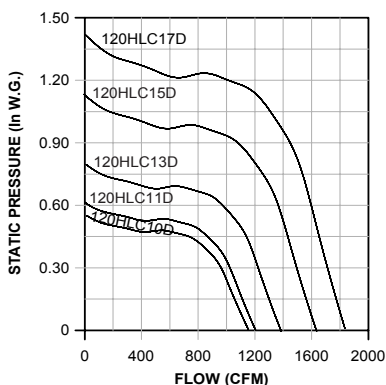
100HLC10DH, 100HLC10DM, 100HLC10DL



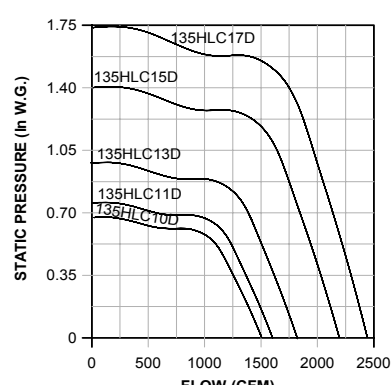
100HLC15DH, 100HLC15DM, 100HLC15DL



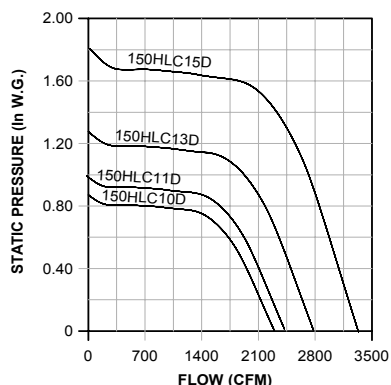
120HLC10D, 120HLC11D, 120HLC13D, 120HLC15D, 120HLC17D



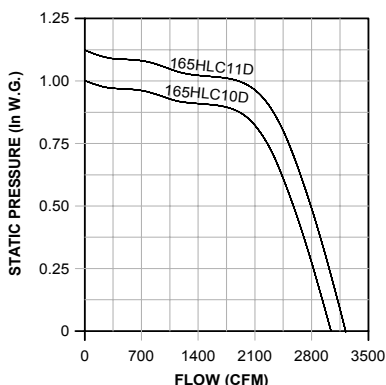
135HLC10D, 135HLC11D, 135HLC13D, 135HLC15D, 135HLC17D



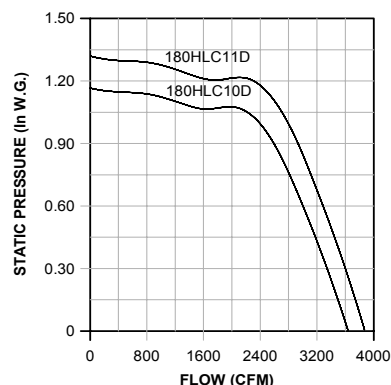
150HLC10D, 150HLC11D, 150HLC13D, 150HLC15D



165HLC10D, 165HLC11D



180HLC10D, 180HLC11D



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test for model sizes 70-100. All others are at constant RPM. Performance ratings do not include the effects of appurtenances (accessories).

HLC-D

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Watts HP	CFM at Static Pressure											
					0 SP Sone BHP	1/8 SP Sone BHP	1/4 SP Sone BHP	3/8 SP Sone BHP	1/2 Sone BHP	5/8 Sone BHP	3/4 Sone BHP	7/8 Sone BHP	1 Sone BHP	1-1/4 Sone BHP	1-1/2 Sone BHP	
70HLC10DH	1/25	1175	2153	72	165 102											
70HLC10DM		1180	2162	70	2.4 .07	2.8 .08										
70HLC10DL		1182	2166		142 8	3										
					2.7 .08	2.6 .07										
					106 6	2										
					2.5 .07	2.3 .06										
70HLC15DH	1/20	1650	3024	99	229 186	154 106										
70HLC15DM		1680	3079	90	4.3 .11	3.7 .10	3.5 .09	3.3 .08								
70HLC15DL		1710	3134	85	206 176	126		77								
					4.1 .10	4.0 .09	4.1 .08	4.0 .07								
90HLC10DH	1/25	1130	2699	88	151 124		89	59								
90HLC10DM		1145	2735	83	4.6 .10	4.5 .09	4.9 .08	4.2 .07								
90HLC10DL		1155	2759	78	492 392	255										
					5.4 .11	4.8 .10	4.3 .09									
90HLC15DH	1/8	1600	3822	161	5.9 .12	5.6 .11	5.4 .10									
90HLC15DM		1665	3978	130	335 264	198										
90HLC15DL		1705	4073	104	5.8 .11	5.3 .10	5.1 .09									
					717 646	564 475	379 263	159								
100HLC10DH	1/25	1100	2916	98	9.7 .14	9.1 .13	8.6 .12	8.4 .11	8.2 .10	8.2 .09	8.2 .08					
100HLC10DM		1125	2982	88	670 603	524 441	362 300	170								
100HLC10DL		1135	3009	86	22 .07	12.0 .06	8.6 .05	8.0 .04	7.4 .03	6.9 .02	6.5 .01					
					483 442	395 363	318 251	155								
100HLC15DH	1/8	1550	4109	236	8.4 .11	7.9 .10	7.5 .09	7.0 .08	6.6 .07	6.5 .06	6.5 .05					
100HLC15DM		1650	4374	174	553 443	309 131										
100HLC15DL		1675	4440	157	5.5 .10	5.1 .09	4.4 .08	4.3 .07								
					510 432	322		211								
120HLC10D	1/6	1075	3377	-	5.6 .10	4.9 .09	4.2 .08	3.8 .07								
120HLC10D	1/2	1725	5419	-	408 342	287 164										
120HLC11D	1/6	1140	3581	-	5.6 .10	5.2 .09	4.6 .08	4.1 .07								
120HLC13D	1/4	1300	4084	-	766 675	597 517	427 326	227				114				
120HLC15D		1550	4869	-	9.8 .13	9.3 .12	8.8 .11	8.4 .10	8.0 .09	8.0 .08	7.9 .07	7.9 .06				
120HLC17D	1/2	1725	5419	1828	744 693	628 558	477 435	384 273								
135HLC10D	1/6	1075	3799	-	10.4 .14	9.8 .13	9.2 .12	8.8 .11	8.4 .10	8.1 .09	7.9 .08	7.7 .07				
135HLC11D		1140	4029	-	600 552	506 470	488 379	302 209								
135HLC13D	1/2	1300	4595	-	10.1 .13	9.7 .12	9.3 .11	8.7 .10	8.2 .09	8.1 .08	7.9 .07	7.8 .06				
135HLC15D		1550	5478	-	1137	1054	977	857								
135HLC17D	1/2	1725	6097	-	8.3 .07	7.9 .08	7.3 .09	6.9 .09								
150HLC10D	1/3	1075	4222	-	1825	1772	1721	1671	1623	1575	1522	1450	1342			
150HLC11D		1140	4477	-	18.0 .31	17.7 .32	17.3 .33	16.9 .35	16.5 .36	16.0 .38	15.6 .40	15.2 .40	14.9 .38			
150HLC13D	3/4	1300	5105	-	1206	1127	1054	966								
150HLC15D		1550	6087	-	9.3 .09	8.9 .10	8.4 .11	7.9 .12								
165HLC10D	1/2	1075	4644	-	1375	1306	1240	1176	1090							
165HLC11D	3/4	1140	4924	-	11.7 .13	11.2 .14	10.8 .15	10.2 .17	9.8 .17							
180HLC11D	3/4	1075	5066	-	1640	1581	1524	1470	1417	1358	1265					
180HLC11D		1140	5372	-	15.0 .22	14.7 .23	14.3 .25	14.0 .26	13.5 .28	13.1 .29	12.7 .29					
					1772	1721	1671	1623	1575	1522	1450	1342				
					17.1 .32	17.3 .33	16.9 .35	16.5 .36	16.0 .38	15.6 .40	15.2 .40	14.9 .38				
					1513	1429	1338	1240	1134							
					10.0 .10	9.3 .11	8.7 .12	8.3 .13	8.2 .14							
					1604	1526	1441	1349	1256							
					11.2 .12	10.4 .13	9.9 .14	9.4 .15	9.1 .16							
					1829	1761	1689	1612	1531	1449	1354					
					13.5 .18	12.9 .19	12.4 .20	11.9 .21	11.5 .22	11.2 .23	11.2 .24					
					2181	2124	2065	2004	1940	1872	1803	1736	1662			
					17.5 .31	17.1 .32	16.7 .33	16.3 .35	16.0 .36	15.7 .37	15.4 .38	15.2 .39	15.0 .40			
					2427	2376	2324	2270	2215	2156	2095	2034	1973	1843		
					21 .43	21 .44	20 .45	19.9 .47	19.6 .48	19.3 .49	19.0 .50	18.7 .52	18.5 .53	18.1 .56		
					2299	2192	2085	1976	1856	1690	1410					
					14.6 .21	14.4 .23	14.2 .24	13.8 .26	13.3 .27	12.8 .27	12.3 .26					
					2438	2337	2236	2135	2028	1898	1715					
					16.3 .25	16.2 .27	16.0 .28	15.7 .30	15.2 .31	14.7 .32	14.2 .32					
					2780	2691	2603	2514	2425	2332	2227	2093	1916			
					20 .37	20 .39	20 .41	20 .43	19.7 .45	19.3 .46	18.9 .47	18.5 .48	18.1 .48			
					3315	3240	3166	3092	3018	2943	2868	2789	2705	2490		
					27 .62	27 .65	27 .67	27 .70	27 .72	26 .74	26 .76	26 .78	25 .79	25 .81		
					3039	2932	2822	2704	2576	2432	2252	1908				
					16.0 .42	15.5 .45	15.1 .47	14.6 .49	14.0 .51	13.5 .51	13.1 .52	12.8 .50				
					3223	3122	3019	2911	2794	2666	2522	2334				
					17.8 .50	17.4 .53	17.0 .56	16.5 .58	16.0 .60	15.5 .61	15.1 .62	14.7 .62				
					3640	3520	3396	3264	3121	2971	2815	2633				
					18.2 .50	17.7 .53	17.2 .55	16.7 .58	16.1 .60	15.6 .63	15.1 .65	14.8 .66				
					3860	3747	3631	3509	3378	3239	3097	2945	2768			
					19.9 .60	19.3 .63	18.8 .65	18.4 .68	17.8 .71	17.3 .73	16.8 .76	16.4 .77	16.0 .78			

Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Speed (RPM) shown is nominal. Performance is based on actual speed of test for model sizes 70-100. All others are at constant RPM. Performance ratings do not include the effects of appurtenances (accessories).

100-135 HLC-B Data

100 HLC-B

Wheel Diameter = 10

Tip Speed (FPM) = $2.6 \times \text{RPM}$

Maximum RPM = 1990

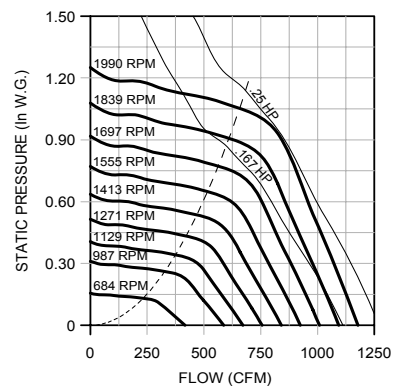
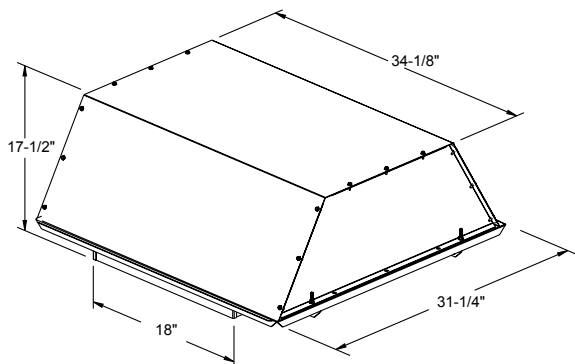
Maximum BHP = $.03 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 48

Approx. Ship Wt. (Less Motor) = 70 lbs.

Roof Curb = RCG, RCA 16

Roof Opening = $13\text{-}1/2"$ sq.



120 HLC-B

Wheel Diameter = 12

Tip Speed (FPM) = $3.1 \times \text{RPM}$

Maximum RPM = 1671

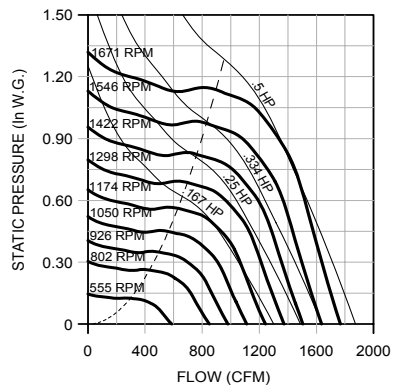
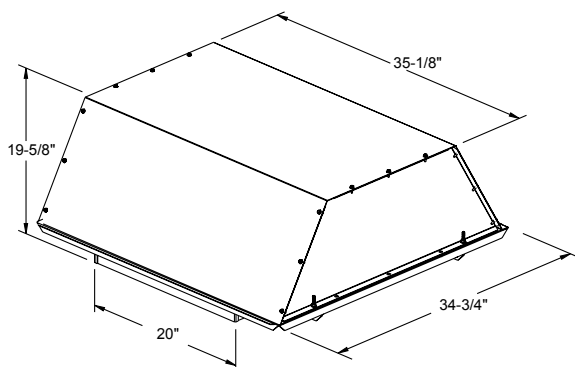
Maximum BHP = $.11 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 56

Approx. Ship Wt. (Less Motor) = 170 lbs.

Roof Curb = RCG, RCA 18

Roof Opening = $15\text{-}1/2"$ sq.



135 HLC-B

Wheel Diameter = 13.5

Tip Speed (FPM) = $3.5 \times \text{RPM}$

Maximum RPM = 1770

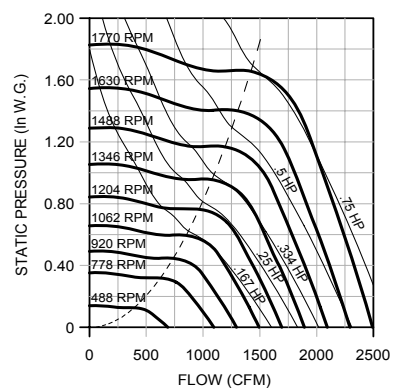
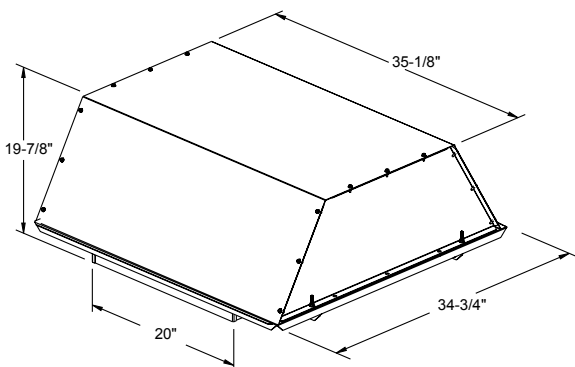
Maximum BHP = $.14 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 56

Approx. Ship Wt. (Less Motor) = 170 lbs.

Roof Curb = RCG, RCA 18

Roof Opening = $15\text{-}1/2"$ sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories) in the airstream.

100 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
100HLC-B	1/6	684	1790	406	230										
				2.6 .01	2.1 .01										
		893	2337	530	430										
				4.5 .02	4.2 .02										
		1102	2885	655	574	492									
				6.7 .03	6.3 .04	5.9 .04									
	1/4	1311	3432	779	713	642	573								
				9.0 .06	8.7 .06	8.3 .07	7.9 .07								
		1520	3979	903	847	786	726	666							
				11.5 .09	11.3 .09	11.1 .10	10.6 .11	10.1 .11							
		1731	4531	1028	979	928	873	821	770	684					
				14.6 .13	14.4 .14	14.2 .14	13.9 .15	13.5 .16	13.0 .16	12.5 .16					
	1/4	1796	4701	1067	1020	970	918	867	819	759					
				15.5 .15	15.4 .15	15.3 .16	14.9 .17	14.5 .17	14.1 .18	13.6 .18					
		1861	4872	1105	1060	1013	962	912	866	815					
				16.5 .16	16.4 .17	16.3 .18	16.0 .18	15.7 .19	15.2 .20	14.7 .20					
		1926	5042	1144	1100	1055	1007	958	912	866					
				17.6 .18	17.4 .19	17.3 .19	17.1 .20	16.8 .21	16.4 .22	15.9 .22					
	1/2	1990	5209	1182	1140	1096	1050	1002	957	913	776				
				18.6 .20	18.5 .21	18.4 .21	18.1 .22	17.8 .23	17.5 .24	17.1 .24	16.2 .25				

120 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
120HLC-B	1/6	555	1743	587	304										
				2.1 .02	1.9 .02										
		752	2362	796	681										
				4.1 .04	3.5 .04										
	1/4	949	2981	1004	911	816									
				6.5 .08	6.1 .08	5.5 .09									
		1145	3597	1211	1133	1060	974	785							
				9.4 .13	9.0 .14	8.4 .15	8.0 .16	7.6 .15							
	1/4	1231	3867	1302	1229	1160	1091	970							
				10.8 .17	10.3 .18	9.8 .19	9.3 .20	8.9 .20							
	1/3	1316	4134	1392	1324	1258	1196	1115	966						
				11.9 .20	11.4 .21	11.0 .22	10.5 .24	10.0 .25	9.6 .23						
		1386	4354	1466	1401	1338	1279	1214	1102	898					
				12.7 .24	12.4 .25	12.0 .26	11.5 .27	11.1 .29	10.7 .28	10.3 .26					
	1/2	1455	4571	1539	1477	1417	1360	1302	1221	1086					
				13.7 .28	13.3 .29	13.0 .30	12.5 .31	12.1 .33	11.7 .33	11.3 .32					
	1/2	1563	4910	1654	1596	1539	1485	1433	1374	1287					
				15.2 .34	14.9 .35	14.5 .37	14.2 .38	13.7 .40	13.3 .41	12.9 .41					
	1/2	1671	5249	1768	1714	1660	1609	1560	1510	1451	1235				
				17.0 .42	16.6 .43	16.3 .44	15.9 .46	15.5 .47	15.1 .49	14.7 .51	13.9 .48				

135 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
135HLC-B	1/6	488	1724	687	402										
				2.5 .01	1.9 .02										
		771	2724	1085	964	823									
	1/4			5.7 .05	4.7 .06	4.6 .06									
		1054	3725	1483	1398	1304	1204	1089							
				9.7 .13	8.9 .14	8.4 .15	8.0 .16	7.9 .16							
	1/4	1132	4000	1593	1514	1429	1336	1242	1096						
				11.0 .16	10.3 .17	9.7 .18	9.3 .19	9.0 .20	9.0 .20						
		1211	4280	1704	1630	1552	1467	1380	1286	1085					
	1/3			12.3 .20	11.6 .21	11.0 .22	10.5 .23	10.1 .24	9.9 .25	10.1 .24					
		1339	4732	1884	1818	1749	1675	1596	1517	1433					
				14.1 .27	13.5 .28	13.0 .29	12.5 .30	12.1 .31	11.8 .32	11.7 .33					
	1/2	1439	5085	2025	1963	1900	1833	1761	1687	1614	1409				
				15.5 .34	15.0 .35	14.5 .36	14.2 .37	13.9 .38	13.6 .39	13.3 .40	13.3 .41				
		1538	5435	2164	2106	2047	1986	1921	1852	1783	1639				
	3/4			17.2 .41	16.8 .42	16.4 .44	16.1 .45	15.8 .46	15.4 .47	15.2 .48	14.8 .50				
		1654	5845	2327	2274	2219	2163	2104	2042	1978	1850	1693			
				19.5 .51	19.1 .52	18.8 .54	18.4 .55	18.1 .56	17.8 .58	17.5 .59	17.0 .61	16.6 .63			
	3/4	1770	6255	2490	2440	2390	2338	2284	2228	2169	2049	1928	1747		
				22 .63	22 .64	21 .65	21 .67	21 .68	20 .70	20 .71	19.5 .73	19.0 .76	19.0 .77		

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

150-180 HLC-B Data

150 HLC-B

Wheel Diameter = 15

Tip Speed (FPM) = $3.9 \times \text{RPM}$

Maximum RPM = 1608

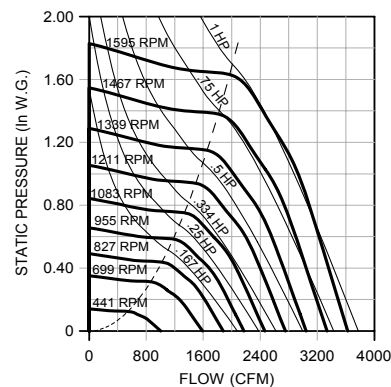
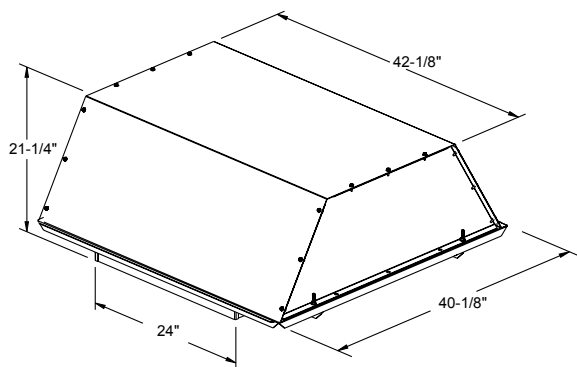
Maximum BHP = $.25 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 143T

Approx. Ship Wt. (Less Motor) = 195 lbs.

Roof Curb = RCG, RCA 22

Roof Opening = $19\text{-}1/2"$ sq.



165 HLC-B

Wheel Diameter = 16.5

Tip Speed (FPM) = $4.3 \times \text{RPM}$

Maximum RPM = 1322

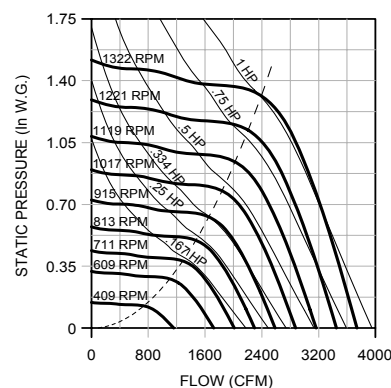
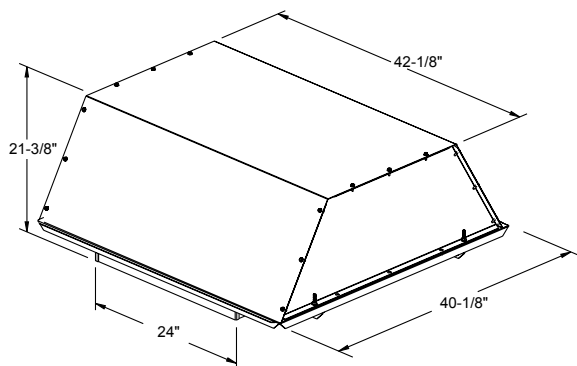
Maximum BHP = $.45 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 143T

Approx. Ship Wt. (Less Motor) = 195 lbs.

Roof Curb = RCG, RCA 22

Roof Opening = $19\text{-}1/2"$ sq.



180 HLC-B

Wheel Diameter = 18

Tip Speed (FPM) = $4.7 \times \text{RPM}$

Maximum RPM = 1553

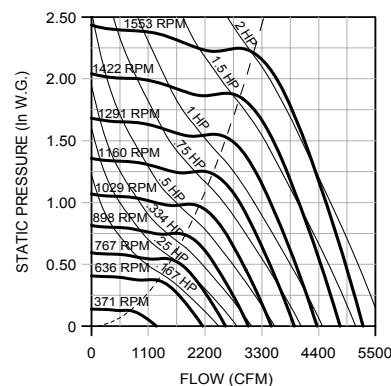
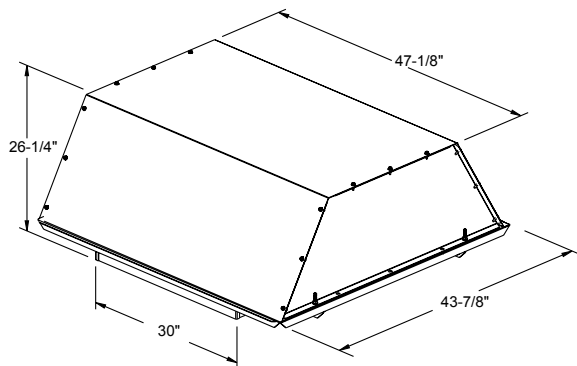
Maximum BHP = $.56 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 145T

Approx. Ship Wt. (Less Motor) = 225 lbs.

Roof Curb = RCG, RCA 28

Roof Opening = $25\text{-}1/2"$ sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories) in the airstream.

150 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
150HLC-B	1/6	441	1731	1002											
				2.1 .02											
	1/6	861	3381	1957	1803	1644	1396								
				8.2 .14	7.5 .15	6.3 .16	5.3 .16								
	1/4	990	3887	2250	2116	1981	1833	1596							
				10.2 .21	9.6 .22	8.7 .24	7.7 .25	6.9 .24							
	1/3	1094	4296	2487	2365	2244	2119	1969	1735	1460					
				12.0 .29	11.5 .30	10.7 .31	9.9 .33	9.1 .33	8.4 .32	7.7 .31					
	1/2	1175	4614	2671	2558	2444	2331	2207	2041	1812					
				13.8 .35	13.3 .37	12.7 .38	11.9 .40	11.1 .41	10.3 .41	9.6 .40					
	1/2	1256	4932	2855	2749	2643	2537	2427	2301	2122					
				15.7 .43	15.3 .45	14.7 .46	13.9 .48	13.1 .50	12.3 .51	11.6 .50					
	3/4	1351	5305	3071	2972	2874	2775	2676	2570	2446	2070				
				17.5 .54	17.1 .56	16.5 .57	15.9 .59	15.1 .61	14.3 .62	13.5 .63	12.2 .60				
	3/4	1446	5678	3287	3195	3103	3011	2919	2824	2723	2435	2058			
				19.5 .66	18.9 .68	18.4 .70	17.8 .72	17.1 .73	16.3 .75	15.6 .77	14.2 .76	12.9 .73			
	1	1520	5969	3455	3368	3280	3192	3105	3017	2924	2697	2351			
				21 .77	21 .79	20 .81	19.6 .82	18.8 .84	17.9 .86	17.2 .88	15.8 .90	14.5 .86			
	1	1595	6263	3626	3542	3459	3375	3292	3208	3123	2930	2639	2302		
				23 .89	23 .91	22 .93	22 .95	21 .97	19.9 .99	19.0 1.01	17.4 1.03	16.2 1.01	15.0 .99		

165 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
165HLC-B	1/6	409	1766	1156	747										
				2.4 .03	2.4 .03										
	1/6	714	3084	2018	1854	1661	1339								
				7.4 .13	6.9 .15	6.3 .16	6.5 .16								
	1/4	821	3546	2321	2180	2025	1840	1519							
				9.5 .20	9.1 .22	8.6 .24	8.1 .25	8.1 .24							
	1/3	907	3917	2564	2437	2301	2148	1964							
				11.5 .27	11.1 .30	10.6 .32	10.0 .33	9.6 .33							
	1/2	975	4211	2756	2638	2514	2379	2225	2027						
				13.2 .34	12.8 .37	12.4 .39	11.8 .40	11.3 .41	10.9 .41						
	1/2	1042	4501	2946	2835	2721	2598	2462	2307	2092					
				15.0 .41	14.6 .44	14.2 .47	13.6 .49	13.0 .50	12.7 .50	12.3 .50					
	3/4	1120	4838	3166	3064	2959	2847	2727	2595	2443					
				17.2 .51	16.8 .55	16.4 .57	16.0 .60	15.4 .61	14.9 .62	14.5 .63					
	3/4	1199	5179	3390	3294	3196	3095	2987	2870	2742	2393				
				19.7 .63	19.2 .66	18.8 .69	18.4 .72	17.8 .74	17.2 .75	16.8 .76	16.1 .77				
	1	1261	5447	3565	3474	3382	3286	3186	3078	2963	2688				
				21 .73	21 .77	20 .80	20 .83	19.5 .85	18.9 .87	18.4 .88	17.6 .90				
	1	1322	5710	3737	3651	3563	3473	3379	3279	3173	2933	2568			
				23 .85	22 .88	22 .92	22 .95	21 .98	21 1.00	20 1.01	19.2 1.03	18.5 1.02			

180 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
180HLC-B	1/6	371	1748	1256	767										
				2.5 .02	2.0 .03										
	1/6	663	3124	2245	2044	1808	1492								
				7.8 .13	7.2 .14	6.7 .16	6.3 .16								
	1/4	762	3590	2580	2408	2214	1999	1699							
				9.8 .19	9.2 .21	8.7 .23	8.3 .24	8.0 .25							
	1/3	842	3967	2851	2697	2528	2340	2135	1826						
				11.5 .26	11.0 .28	10.5 .30	10.0 .32	9.7 .33	9.4 .33						
	1/2	967	4556	3274	3141	3000	2846	2681	2505	2287					
				14.9 .39	14.4 .42	13.9 .44	13.4 .46	12.9 .48	12.5 .50	12.1 .51					
	3/4	1113	5244	3769	3653	3534	3408	3272	3129	2981	2621				
				19.2 .60	18.7 .63	18.2 .65	17.7 .68	17.1 .71	16.6 .73	16.1 .75	15.3 .77				
	1	1228	5786	4158	4053	3946	3835	3718	3593	3463	3190	2834			
				22 .80	22 .83	21 .86	21 .89	20 .92	19.6 .95	19.1 .98	18.3 1.02	17.6 1.03			
	1-1/2	1410	6644	4774	4683	4591	4497	4400	4297	4191	3966	3732	3461		
				27 1.22	26 1.25	26 1.28	26 1.32	25 1.35	25 1.39	24 1.42	23 1.48	23 1.53	22 1.56		
	2	1482	6983	5018	4931	4844	4755	4663	4568	4469	4260	4041	3807	3044	
				29 1.41	29 1.45	28 1.48	28 1.52	27 1.55	27 1.59	27 1.63	26 1.69	25 1.75	24 1.80	23 1.77	
	2	1553	7318	5258	5176	5092	5008	4921	4833	4740	4544	4338	4125	3583	
				31 1.63	31 1.66	30 1.70	30 1.74	30 1.77	29 1.81	29 1.85	28 1.92	27 1.99	27 2.05	25 2.09	

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

195-225 HLC-B Data

195 HLC-B

Wheel Diameter = 19.5

Tip Speed (FPM) = 5.1 x RPM

Maximum RPM = 1338

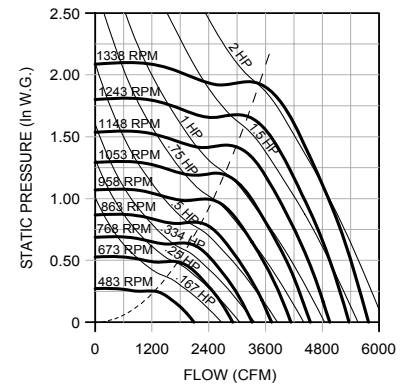
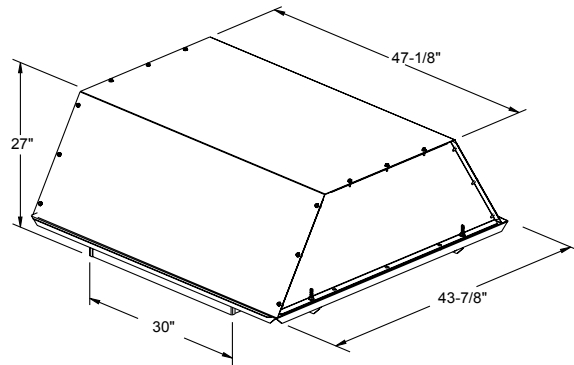
Maximum BHP = $.87 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 145T

Approx. Ship Wt. (Less Motor) = 225 lbs.

Roof Curb = RCG, RCA 28

Roof Opening = 25-1/2" sq.



210 HLC-B

Wheel Diameter = 21

Tip Speed (FPM) = 5.5 x RPM

Maximum RPM (Standard Wheel) = 1277

Maximum RPM (Reinforced Wheel) = 1345

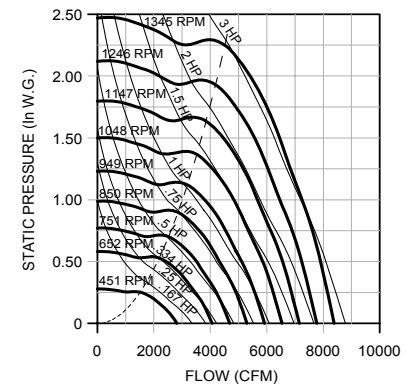
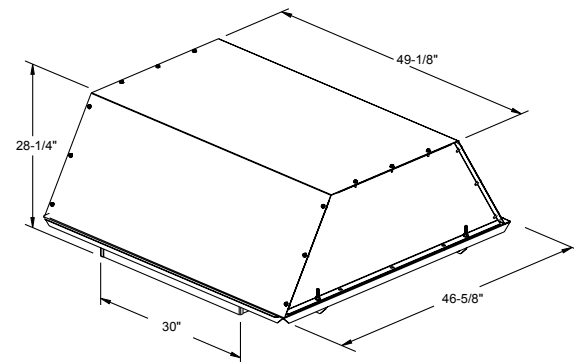
Maximum BHP = $1.3 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 260 lbs.

Roof Curb = RCG, RCA 28

Roof Opening = 25-1/2" sq.



225 HLC-B

Wheel Diameter = 22.5

Tip Speed (FPM) = 5.9 x RPM

Maximum RPM (Standard Wheel) = 1152

Maximum RPM (Reinforced Wheel) = 1183

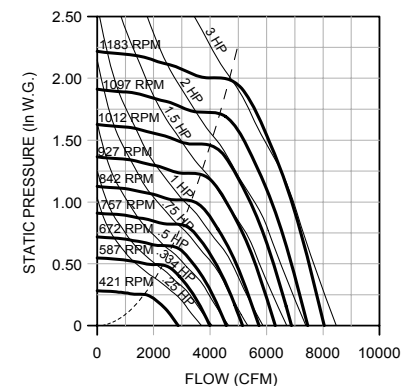
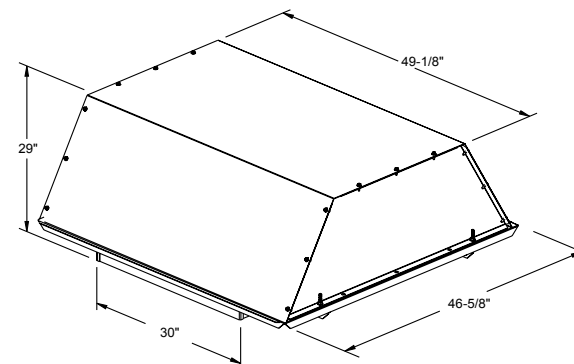
Maximum BHP = $1.9 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 265 lbs.

Roof Curb = RCG, RCA 28

Roof Opening = 25-1/2" sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

195 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
195HLC-B	1/6	483	2465	2086	1795	1274									
				5.1 .08	4.6 .09	4.0 .10									
	570	2909		2461	2233	1915									
				6.9 .13	6.5 .15	5.8 .16									
	1/4	656	3348	2833	2641	2394	2090								
				8.9 .20	8.6 .22	8.0 .23	7.4 .25								
	1/3	725	3701	3131	2959	2755	2500	2197							
				10.8 .27	10.4 .29	9.9 .31	9.2 .32	8.8 .33							
	1/2	833	4252	3597	3450	3288	3090	2863	2609						
				14.0 .41	13.6 .44	13.2 .46	12.6 .48	12.0 .49	11.5 .50						
	3/4	958	4890	4137	4009	3875	3725	3548	3352	3143					
				18.2 .62	17.8 .65	17.5 .68	17.1 .71	16.4 .73	15.8 .74	15.3 .76					
	1	1057	5396	4564	4449	4330	4202	4057	3892	3714	3322				
				21 .83	21 .87	21 .90	20 .93	19.7 .96	19.1 .98	18.4 1.00	17.4 1.03				
	1-1/2	1214	6197	5242	5142	5040	4934	4821	4696	4558	4252	3919	3478		
				26 1.26	26 1.3	25 1.34	25 1.38	25 1.41	24 1.44	24 1.47	22 1.51	22 1.56	21 1.55		
	2	1276	6514	5510	5415	5318	5218	5114	5000	4875	4594	4291	3946		
				28 1.47	28 1.51	27 1.55	27 1.59	27 1.63	26 1.66	26 1.69	25 1.73	24 1.79	23 1.82		
	1338	6830		5777	5687	5595	5501	5403	5299	5185	4928	4646	4343		
				30 1.69	30 1.73	29 1.78	29 1.82	29 1.86	28 1.90	28 1.93	27 1.98	26 2.03	25 2.08		

210 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
210HLC-B	1/6	451	2479	2813	2368	1560									
				5.4 .10	4.8 .12	4.4 .11									
	500	2748		3119	2750	2185									
				6.5 .13	5.9 .15	5.5 .16									
	1/4	575	3161	3586	3291	2847	2247								
				8.4 .20	7.7 .23	7.3 .24	6.9 .24								
	1/3	635	3491	3960	3701	3327	2899								
				9.8 .28	9.2 .30	8.7 .32	8.3 .33								
	1/2	729	4007	4547	4326	4053	3686	3307	2723						
				12.3 .42	11.8 .44	11.2 .47	10.7 .50	10.3 .50	10.0 .49						
	3/4	839	4612	5233	5043	4833	4558	4234	3916	3490					
				15.6 .63	15.1 .67	14.6 .70	14.1 .73	13.6 .76	13.3 .77	12.9 .76					
	1	926	5090	5775	5605	5422	5206	4928	4637	4350	3497				
				18.8 .85	18.2 .89	17.7 .93	17.2 .96	16.7 1.00	16.2 1.02	15.8 1.03	15.2 1.00				
	1-1/2	1063	5844	6630	6481	6328	6161	5967	5727	5468	4969	4267			
				24 1.29	24 1.33	23 1.37	23 1.42	22 1.46	21 1.50	21 1.53	20 1.56	19.4 1.54			
	2	1172	6443	7310	7175	7038	6893	6734	6551	6333	5871	5407	4765		
				28 1.73	27 1.78	27 1.82	26 1.87	26 1.91	25 1.96	25 2.00	24 2.07	23 2.09	22 2.07		
	3	1345	7394	8389	8272	8154	8032	7905	7768	7616	7247	6841	6454	5402	
				34 2.61	34 2.67	33 2.72	33 2.77	32 2.82	32 2.88	31 2.93	30 3.03	29 3.11	29 3.15	27 3.12	

225 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
225HLC-B	1/4	421	2479	2863	2463	1725									
				6.2 .12	5.4 .13	4.6 .14									
	505	2974		3435	3116	2699									
				8.7 .20	7.9 .23	7.1 .24									
	1/3	559	3292	3802	3518	3181	2712								
				10.5 .27	9.6 .30	8.9 .31	8.2 .33								
	1/2	642	3781	4366	4122	3853	3522	3094							
				13.5 .41	12.7 .45	12.0 .47	11.3 .48	10.7 .50							
	3/4	738	4347	5019	4808	4586	4336	4037	3672	3179					
				17.1 .63	16.4 .67	15.7 .70	15.1 .72	14.6 .73	14.0 .76	13.5 .75					
	1	814	4794	5536	5345	5148	4935	4695	4412	4079					
				20 .84	19.4 .89	18.8 .93	18.2 .95	17.6 .96	17.2 .99	16.8 1.02					
	1-1/2	935	5507	6359	6193	6024	5848	5660	5455	5223	4659				
				25 1.27	25 1.33	24 1.38	24 1.43	23 1.45	23 1.46	22 1.48	21 1.55				
	2	1031	6073	7012	6862	6710	6554	6390	6217	6030	5593	5060	4219		
				30 1.71	29 1.77	29 1.83	28 1.88	28 1.92	27 1.94	27 1.96	26 2.01	25 2.09	24 2.00		
	3	1107	6520	7529	7389	7248	7104	6955	6800	6635	6268	5822	5304		
				34 2.11	33 2.18	33 2.25	32 2.31	32 2.36	31 2.39	31 2.41	30 2.44	29 2.53	28 2.59		
	1183	6968		8046	7915	7783	7650	7513	7371	7223	6902	6529	6088		
				38 2.58	38 2.65	37 2.72	37 2.79	36 2.85	36 2.89	35 2.92	34 2.95	33 3.01	32 3.12		

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

245-300 HLC-B Data

245 HLC-B

Wheel Diameter = 24.5

Tip Speed (FPM) = 6.4 x RPM

Maximum RPM = 1012

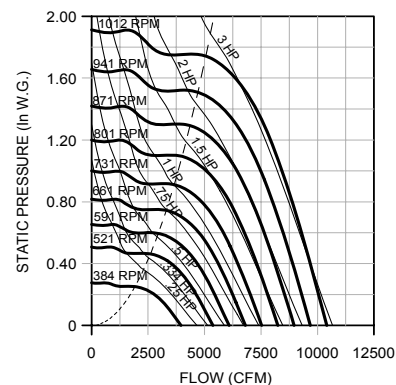
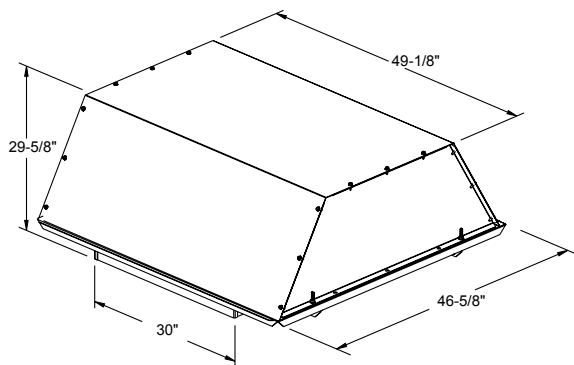
Maximum BHP = $3.0 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 275 lbs.

Roof Curb = RCG, RCA 28

Roof Opening = 25-1/2" sq.



270 HLC-B

Wheel Diameter = 27

Tip Speed (FPM) = 7.1 x RPM

Maximum RPM = 870

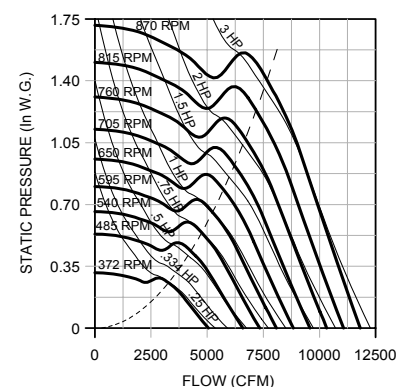
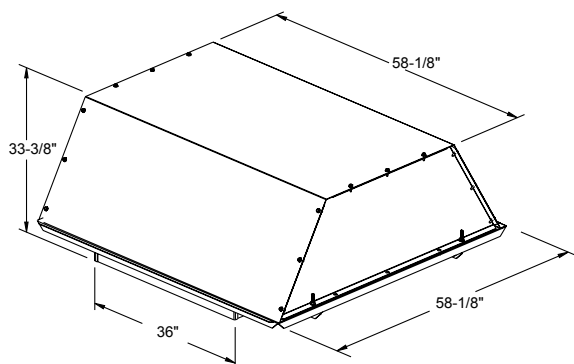
Maximum BHP = $4.8 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 184T

Approx. Ship Wt. (Less Motor) = 365 lbs.

Roof Curb = RCG, RCA 34

Roof Opening = 31-1/2" sq.



300 HLC-B

Wheel Diameter = 30

Tip Speed (FPM) = 7.9 x RPM

Maximum RPM (Standard Wheel) = 837

Maximum RPM (Reinforced Wheel) = 989

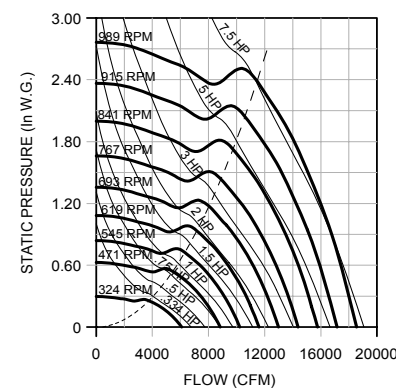
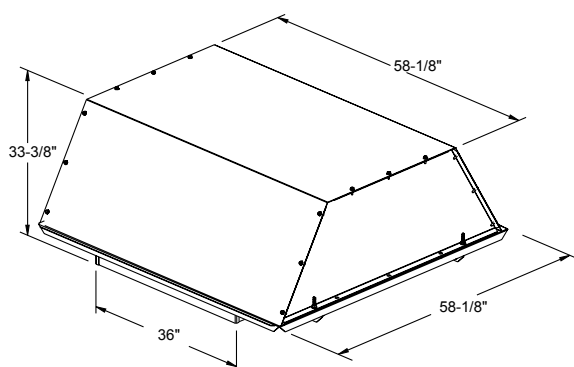
Maximum BHP = $8.2 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 375 lbs.

Roof Curb = RCG, RCA 34

Roof Opening = 31-1/2" sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

245 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
245HLC-B	1/4	384	2463	3954	3318	1978									
				5.3 .15	4.8 .17	4.2 .15									
	432	2770		4448	3899	3160									
				6.8 .22	6.3 .24	5.6 .24									
	1/3	478	3065	4922	4433	3849	2753								
				8.3 .29	7.8 .32	7.1 .33	6.5 .30								
	1/2	549	3521	5653	5234	4766	4189	3073							
				10.6 .45	10.1 .48	9.4 .50	8.7 .50	8.2 .45							
	3/4	631	4047	6497	6135	5749	5316	4793	3955						
				13.3 .68	12.8 .72	12.4 .75	11.7 .76	11.1 .76	10.6 .72						
	1	696	4464	7167	6839	6498	6127	5713	5209	4449					
				15.9 .91	15.5 .96	15.1 1.00	14.4 1.02	13.8 1.03	13.3 1.02	12.8 .97					
	1-1/2	800	5131	8238	7954	7663	7358	7030	6675	6275	5048				
				20 1.38	20 1.44	19.7 1.49	19.4 1.52	18.7 1.55	18.0 1.56	17.5 1.56	16.5 1.47				
	2	881	5650	9072	8814	8553	8282	7998	7695	7372	6599	5286			
				24 1.84	24 1.90	24 1.96	23 2.01	23 2.05	22 2.07	22 2.08	21 2.07	19.5 1.91			
	3	947	6074	9751	9512	9270	9022	8764	8493	8207	7574	7636	5165		
				28 2.29	28 2.35	27 2.42	27 2.48	26 2.52	26 2.55	25 2.57	24 2.59	23 2.54	22 2.28		
	1012	6491		10421	10197	9971	9740	9504	9257	9000	8444	7794	6895		
				32 2.79	31 2.86	31 2.93	30 3.00	30 3.05	30 3.09	29 3.12	27 3.15	26 3.15	25 3.06		

270 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
270HLC-B	1/4	372	2629	5054	4258	3347									
				6.7 .21	6.7 .23	6.7 .25									
	1/3	411	2905	5583	4858	4145									
				8.1 .28	8.1 .31	8.1 .32									
	1/2	472	3336	6412	5775	5171	4461								
				10.5 .43	10.5 .46	10.5 .48	10.5 .50								
	3/4	508	3590	6901	6307	5740	5162								
				12.0 .53	12.0 .57	12.0 .59	12.0 .61								
	543	3838		7377	6819	6284	5762	5108							
				13.7 .65	13.7 .70	13.7 .72	13.7 .73	13.7 .76							
	1	599	4234	8137	7631	7140	6666	6180	5535						
				16.3 .88	16.3 .93	16.3 .96	16.3 .97	16.3 .99	16.3 1.02						
	1-1/2	688	4863	9346	8904	8471	8050	7639	7222	6727					
				20 1.33	20 1.39	20 1.43	20 1.46	20 1.48	20 1.49	20 1.52					
	2	758	5357	10297	9896	9499	9112	8734	8363	7984	7009				
				24 1.78	24 1.84	24 1.90	24 1.94	24 1.96	24 1.98	24 2.00	24 2.07				
	3	814	5753	11058	10684	10313	9950	9594	9245	8900	8143				
				27 2.20	27 2.27	27 2.34	27 2.38	27 2.41	27 2.43	27 2.45	27 2.51				
	870	6149		11819	11469	11121	10778	10442	10112	9788	9131	8316			
				30 2.69	30 2.76	30 2.84	30 2.89	30 2.93	30 2.95	30 2.97	30 3.02	30 3.10			

300 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure											
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP	
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP
300HLC-B	1/3	324	2544	6076	5271	3848									
				6.8 .24	6.8 .27	6.8 .27									
	343	2693		6432	5698	4494									
				7.5 .29	7.5 .32	7.5 .33									
	1/2	394	3094	7388	6787	5920									
				9.4 .44	9.4 .47	9.4 .50									
	3/4	453	3557	8495	7987	7335	6482								
				12.0 .66	12.0 .70	12.0 .74	12.0 .76								
	1	500	3926	9376	8921	8385	7683	6825							
				14.5 .89	14.5 .94	14.5 .98	14.5 1.01	14.5 1.03							
	1-1/2	574	4508	10764	10372	9944	9421	8789	8068	7108					
				18.5 1.35	18.5 1.40	18.5 1.45	18.5 1.49	18.5 1.53	18.5 1.56	18.5 1.51					
	2	632	4963	11851	11497	11121	10692	10173	9585	8928					
				21 1.80	21 1.86	21 1.91	21 1.96	21 2.00	21 2.05	21 2.08					
	3	726	5702	13614	13306	12989	12649	12265	11821	11323	10204	8656			
				26 2.73	26 2.80	26 2.86	26 2.92	26 2.97	26 3.02	26 3.07	26 3.15	26 3.02			
	5	863	6778	16183	15925	15663	15392	15109	14799	14457	13665	12781	11728		
				35 4.59	35 4.66	35 4.74	35 4.82	35 4.89	35 4.96	35 5.02	35 5.13	35 5.25	35 5.28		
	7-1/2	989	7767	18546	18321	18094	17863	17625	17378	17117	16531	15846	15095	13312	
				45 6.90	45 6.99	45 7.08	45 7.17	45 7.25	45 7.34	45 7.42	45 7.56	45 7.69	45 7.82	45 7.93	

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

330-402 HLC-B Data

330 HLC-B

Wheel Diameter = 33

Tip Speed (FPM) = $8.6 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 716

Maximum RPM (Reinforced Wheel) = 869

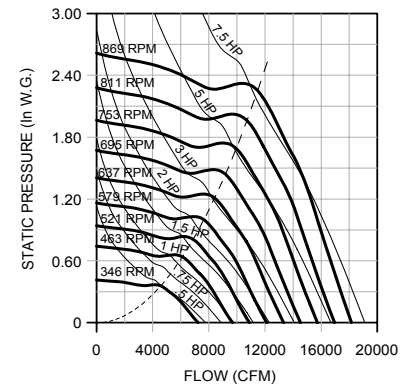
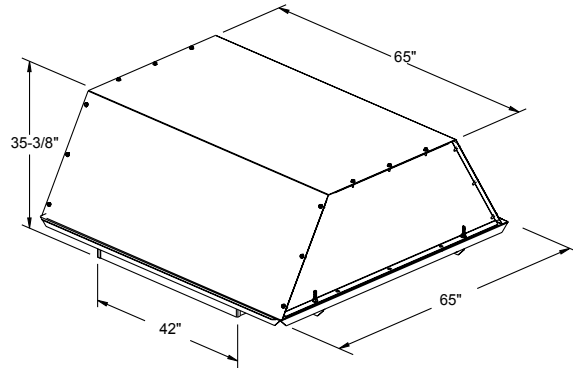
Maximum BHP = $12.1 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 435 lbs.

Roof Curb = RCG, RCA 40

Roof Opening = $37\text{-}1/2"$ sq.



365 HLC-B

Wheel Diameter = 36.5

Tip Speed (FPM) = $9.6 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 624

Maximum RPM (Reinforced Wheel) = 743

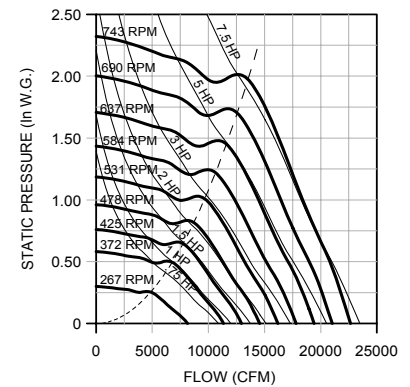
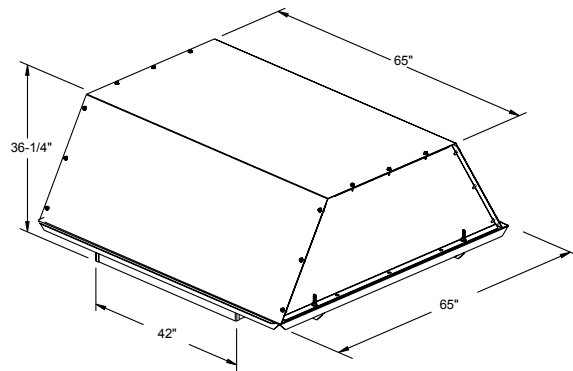
Maximum BHP = $19.3 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 450 lbs.

Roof Curb = RCG, RCA 40

Roof Opening = $37\text{-}1/2"$ sq.



402 HLC-B

Wheel Diameter = 40.25

Tip Speed (FPM) = $10.5 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 539

Maximum RPM (Reinforced Wheel) = 616

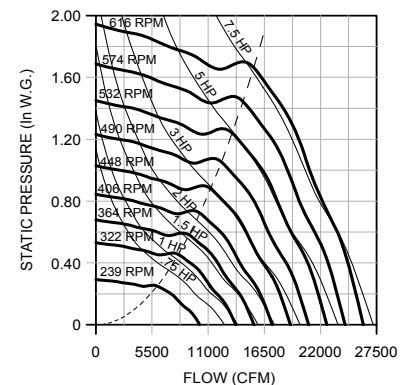
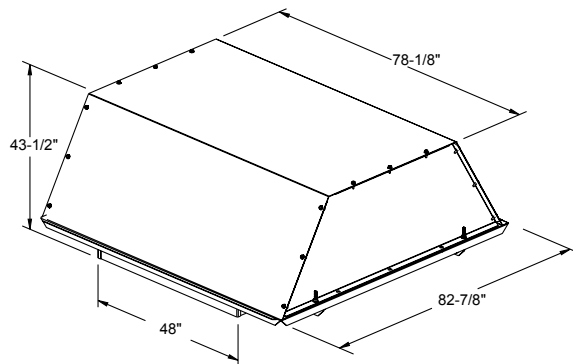
Maximum BHP = $33.9 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 540 lbs.

Roof Curb = RCG, RCA 46

Roof Opening = $43\text{-}1/2"$ sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

330 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
330HLC-B	1/2	346	2989	7233		6460		5645																	
				8.9	.41	8.9	.44	8.9	.48																
	3/4	398	3438	8321		7638		7006		6129															
				11.6	.62	11.6	.65	11.6	.70	11.6	.75														
	1	439	3792	9178		8555		7977		7347		6446													
				14.0	.83	14.0	.86	14.0	.92	14.0	.98	14.0	1.02												
	1-1/2	471	4069	9847		9264		8716		8176		7430		6566											
				16.0	1.03	16.0	1.06	16.0	1.11	16.0	1.18	16.0	1.23	16.0	1.27										
		504	4354	10537		9991		9471		8978		8403		7612		6732									
				18.0	1.26	18.0	1.29	18.0	1.34	18.0	1.41	18.0	1.48	18.0	1.53	18.0	1.53								
	2	555	4794	11603		11106		10625		10172		9716		9155		8428									
				21	1.68	21	1.71	21	1.76	21	1.83	21	1.92	21	1.99	21	2.04								
	3	638	5511	13338		12904		12480		12071		11679		11286		10850		9644							
				26	2.55	26	2.59	26	2.64	26	2.70	26	2.79	26	2.88	26	2.98	26	3.10						
	5	698	6030	14592		14196		13804		13424		13057		12703		12342		11466		10312					
				31	3.34	31	3.38	31	3.43	31	3.49	31	3.57	31	3.67	31	3.78	31	3.97	31	4.09				
758		6548	15847		15481		15120		14765		14420		14087		13761		13074		12155		11092				
			35	4.28	35	4.32	35	4.38	35	4.44	35	4.51	35	4.61	35	4.71	35	4.95	35	5.12	35	5.25			
7-1/2	869	7507	18167		17848		17531		17217		16909		16608		16314		15744		15152		14443		12610		
			45	6.45	45	6.50	45	6.55	45	6.62	45	6.69	45	6.77	45	6.88	45	7.12	45	7.39	45	7.62	45	7.93	

365 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure												
				0 SP	1/8 SP	1/4 SP	3/4 SP	1/2 SP	5/8 SP	3/4 SP	1 SP	1-1/4 SP	1-1/2 SP	2 SP		
				Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	Sone/BHP	
365HLC-B	3/4	267	2551	8138	6661	4988										
				7.10 .31	5.7 .35	4.8 .37										
		340	3248	10363	9316	8044	6786									
	10.8 .64			9.4 .71	8.4 .73	7.6 .76										
	1	376	3592	11460	10563	9362	8312									
				12.8 .87	11.3 .95	10.3 .99	9.7 1.01									
	1-1/2	404	3860	12314	11501	10383	9388	8351								
				14.7 1.08	13.2 1.17	12.2 1.22	11.4 1.24	10.8 1.27								
		431	4118	13136	12388	11373	10389	9471	8372							
	16.5 1.31			15.1 1.41	14.0 1.47	13.3 1.49	12.6 1.52	12.0 1.55								
	2	475	4538	14478	13810	12968	11994	11159	10314	9318						
				19.5 1.76	18.2 1.86	17.0 1.95	16.4 1.98	15.8 2.01	15.2 2.04	14.7 2.07						
	3	546	5217	16642	16069	15420	14593	13759	13029	12311	10633					
				25 2.67	23 2.79	22 2.90	21 2.98	21 3.01	20 3.04	19.9 3.07	19.0 3.15					
	5	649	6201	19781	19303	18798	18219	17523	16790	16134	14925	13645				
				33 4.48	31 4.63	30 4.77	29 4.9	28 4.99	28 5.04	27 5.07	26 5.14	26 5.24				
7-1/2	696	6650	21213	20769	20305	19797	19197	18515	17847	16678	15548	14301				
			36 5.53	35 5.69	34 5.84	33 5.98	32 6.10	31 6.18	31 6.23	30 6.29	29 6.38	28 6.48				
	743	7099	22646	22230	21801	21343	20821	20217	19570	18397	17343	16264				
40 6.73			39 6.89	38 7.06	37 7.22	36 7.35	35 7.46	34 7.54	33 7.62	32 7.69	31 7.79					

402 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
402HLC-B	3/4	239	2518	10167		8519		6011																	
				8.7	.39	5.9	.45	5.5	.45																
				11997		10840		9121																	
	1	311	3277	13230		12254		10641		8895															
				13.9	.87	9.9	.94	8.9	1.01	8.4	1.01														
				14209		13327		11834		10514															
	1-1/2	334	3519	15.6	1.07	11.7	1.16	10.3	1.23	9.4	1.26														
				15187		14379		13088		11796		10099													
				17.5	1.31	13.6	1.40	11.9	1.49	10.9	1.54	10.2	1.52												
	2	394	4151	16761		16041		15081		13707		12632		10872											
				21	1.76	16.8	1.86	14.6	1.96	13.7	2.04	12.7	2.08	11.8	2.03										
				19229		18609		17905		16847		15676		14756		13521									
	3	452	4762	25	2.66	22	2.77	19.5	2.88	18.4	2.99	17.6	3.08	16.7	3.13	15.8	3.11								
				21015		20453		19840		19056		17909		16940		16103		13397							
				29	3.48	26	3.60	24	3.72	22	3.84	21	3.95	20	4.03	19.4	4.08	17.8	4.00						
	5	494	5205	22845		22328		21780		21146		20269		19190		18345		16646		13689					
				34	4.46	31	4.59	28	4.73	26	4.86	25	4.99	24	5.11	23	5.19	22	5.25	20	5.10				
				26205		25757		25293		24799		24224		23484		22541		20974		19567		17301			
	7-1/2	616	6491	43	6.74	40	6.89	38	7.04	35	7.19	33	7.32	32	7.49	31	7.64	30	7.84	28	7.93	27	7.79		

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.

445-540 HLC-B Data

445 HLC-B

Wheel Diameter = 44.5

Tip Speed (FPM) = $11.7 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 463

Maximum RPM (Reinforced Wheel) = 514

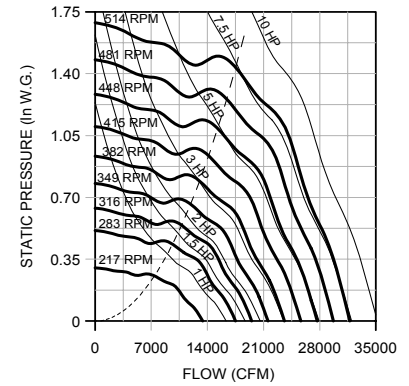
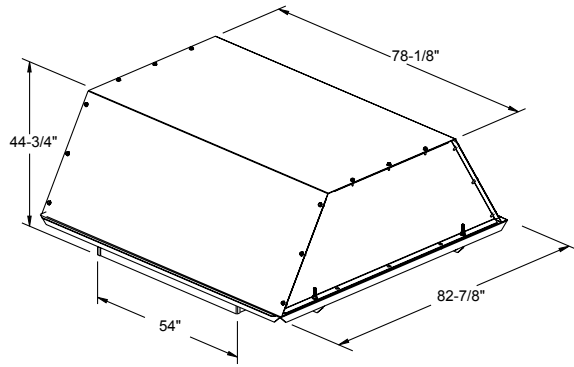
Maximum BHP = $58.5 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 600 lbs.

Roof Curb = RCG, RCA 52

Roof Opening = $49\text{-}1/2"$ sq.



490 HLC-B

Wheel Diameter = 49

Tip Speed (FPM) = $12.8 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 360

Maximum RPM (Reinforced Wheel) = 433

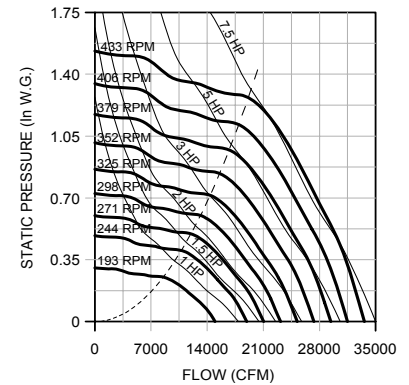
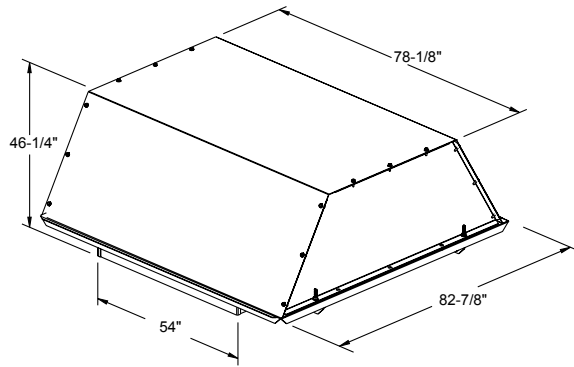
Maximum BHP = $97.1 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 213T

Approx. Ship Wt. (Less Motor) = 625 lbs.

Roof Curb = RCG, RCA 52

Roof Opening = $49\text{-}1/2"$ sq.



540 HLC-B

Wheel Diameter = 54

Tip Speed (FPM) = $14.1 \times \text{RPM}$

Maximum RPM (Standard Wheel) = 347

Maximum RPM (Reinforced Wheel) = 415

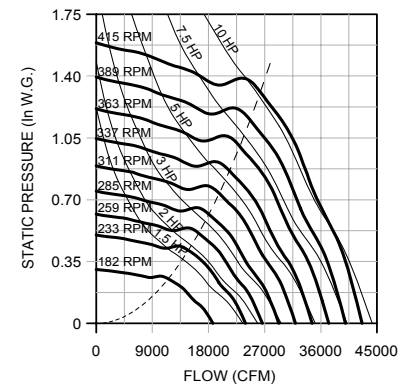
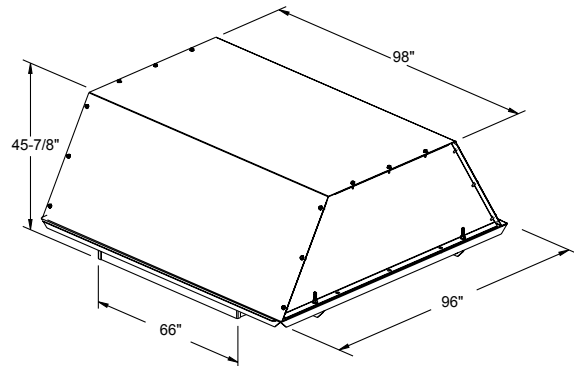
Maximum BHP = $147.4 \times (\text{RPM}/1000)^3$

Maximum Motor Frame = 215T

Approx. Ship Wt. (Less Motor) = 750 lbs.

Roof Curb = RCG, RCA 64

Roof Opening = $61\text{-}1/2"$ sq.



Performance certified is for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

445 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
445HLC-B	1	217	2528	13410		11190		7642																	
				9.0	.55	6.1	.59	5.8	.56																
		259	3017	16005		14386		12411																	
	12.2			.94	8.7	.98	7.8	1.01																	
	1-1/2	298	3471	18415		17146		15184		13584															
				15.6	1.43	11.7	1.48	10.3	1.52	9.6	1.55														
	2	328	3821	20269		19153		17408		15986		13556													
				18.4	1.91	14.5	1.97	12.7	2.01	11.6	2.05	11.0	2.04												
	3	352	4100	21752		20727		19265		17679		16408		13163											
				21	2.36	16.9	2.42	14.8	2.48	13.7	2.52	12.8	2.55	12.0	2.45										
		377	4392	23297		22351		21139		19466		18335		16687		13380									
	23			2.9	19.4	2.97	16.9	3.03	15.9	3.07	15.0	3.11	14.0	3.13	13.2	2.95									
	5	413	4811	25522		24665		23672		22195		20874		19880		18282									
				27	3.81	23	3.89	20	3.96	19.2	4.01	18.3	4.06	17.4	4.10	16.6	4.11								
		448	5219	27685		26900		26033		24873		23409		22371		21450		16982							
	30			4.87	27	4.95	24	5.02	23	5.09	22	5.15	21	5.19	19.9	5.24	18.3	5.07							
7-1/2	481	5603	29724		28996		28216		27267		25947		24709		23822		21610								
			34	6.02	31	6.11	28	6.19	26	6.27	25	6.34	24	6.39	23	6.44	22	6.50							
	514	5988	31763		31083		30366		29551		28474		27174		26145		24517		20713						
38			7.35	35	7.44	32	7.53	30	7.62	29	7.70	28	7.76	27	7.81	25	7.92	24	7.79						

490 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
490HLC-B	1	193	2475	14979		12684		8695																	
				8.9	.59	6.0	.69	5.9	.64																
		219	2809	16997		15192		12363																	
	11.0			.86	7.8	.98	7.2	1.00																	
	1-1/2	251	3219	19480		18029		15752		13025															
				13.9	1.29	10.1	1.43	9.0	1.53	8.8	1.47														
	2	277	3553	21498		20221		18340		16127		13128													
				16.6	1.74	12.5	1.89	11.0	2.04	10.3	2.05	10.1	1.93												
	3	297	3809	23050		21877		20288		18235		15967													
				18.7	2.14	14.8	2.30	12.9	2.47	11.8	2.54	11.4	2.47												
		318	4079	24680		23593		22244		20353		18416		15981											
	21			2.63	17.2	2.80	15.0	2.98	13.9	3.11	13.0	3.10	12.5	2.97											
	5	348	4464	27009		26024		24900		23323		21572		19747		17457									
				24	3.45	21	3.64	17.9	3.83	17.0	4.02	16.0	4.09	15.1	4.04	14.3	3.89								
		378	4849	29337		28435		27451		26190		24576		22984		21260									
	28			4.42	24	4.62	21	4.83	19.9	5.05	19.0	5.21	18.1	5.24	17.3	5.16									
7-1/2	406	5208	31510		30675		29782		28726		27338		25822		24335		20747								
			31	5.47	28	5.69	25	5.92	23	6.15	22	6.36	21	6.48	20	6.48	18.6	6.21							
	433	5554	33606		32823		32001		31077		29917		28505		27107		24145		19779						
35			6.64	31	6.87	28	7.11	26	7.35	25	7.60	24	7.80	23	7.88	22	7.73	20	7.26						

540 HLC-B

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	CFM vs. Static Pressure																					
				0 SP		1/8 SP		1/4 SP		3/4 SP		1/2 SP		5/8 SP		3/4 SP		1 SP		1-1/4 SP		1-1/2 SP		2 SP	
				Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP		Sone/BHP	
540HLC-B	1-1/2	182	2572	18697		15834		11633																	
				9.8	.75	6.7	.86	6.6	.87																
		219	3096	22498		20566		17551																	
	13.4			1.31	9.6	1.44	8.7	1.54																	
	2	241	3407	24758		23100		20290		17678															
				15.7	1.75	11.7	1.89	10.4	2.02	10.0	2.06														
	3	277	3916	28456		27066		25005		22595		20191													
				19.9	2.66	16.0	2.82	14.0	2.99	12.9	3.10	12.4	3.12												
	5	303	4283	31127		29876		28284		25841		23963		21368											
				23	3.48	19.5	3.66	17.0	3.84	15.9	4.00	15.0	4.09	14.3	4.05										
		329	4651	33798		32653		31324		29261		27224		25500		22851									
	27			4.46	23	4.65	19.9	4.85	18.9	5.04	17.9	5.18	17.1	5.25	16.2	5.18									
	7-1/2	353	4990	36263		35202		34023		32403		30233		28595		26886									
				30	5.51	26	5.71	23	5.92	22	6.13	21	6.32	19.8	6.43	18.9	6.48								
		377	5329	38729		37740		36673		35346		33399		31579		30105		25819							
	33			6.71	29	6.93	26	7.15	24	7.38	23	7.60	23	7.75	22	7.86	20	7.77							
10	396	5598	40681		39740		38739		37570		35920		33974		32484		29268								
			36	7.77	32	8.01	29	8.24	27	8.47	26	8.71	25	8.91	24	9.05	22	9.13							
	415	5866	42633		41736		40795		39738		38343		36476		34843		32100		27585						
39			8.95	35	9.19	32	9.43	29	9.68	28	9.93	27	10.16	27	10.34	25	10.53	23	10.31						

Performance certified for Installation Type A: free inlet, free outlet. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m.) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A free inlet fan sone levels. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Shaded area indicates reinforced wheel required.



LOREN COOK COMPANY

2015 E. DALE STREET
SPRINGFIELD, MO 65803-4637
417.869.6474
FAX 417.862.3820
lorencook.com