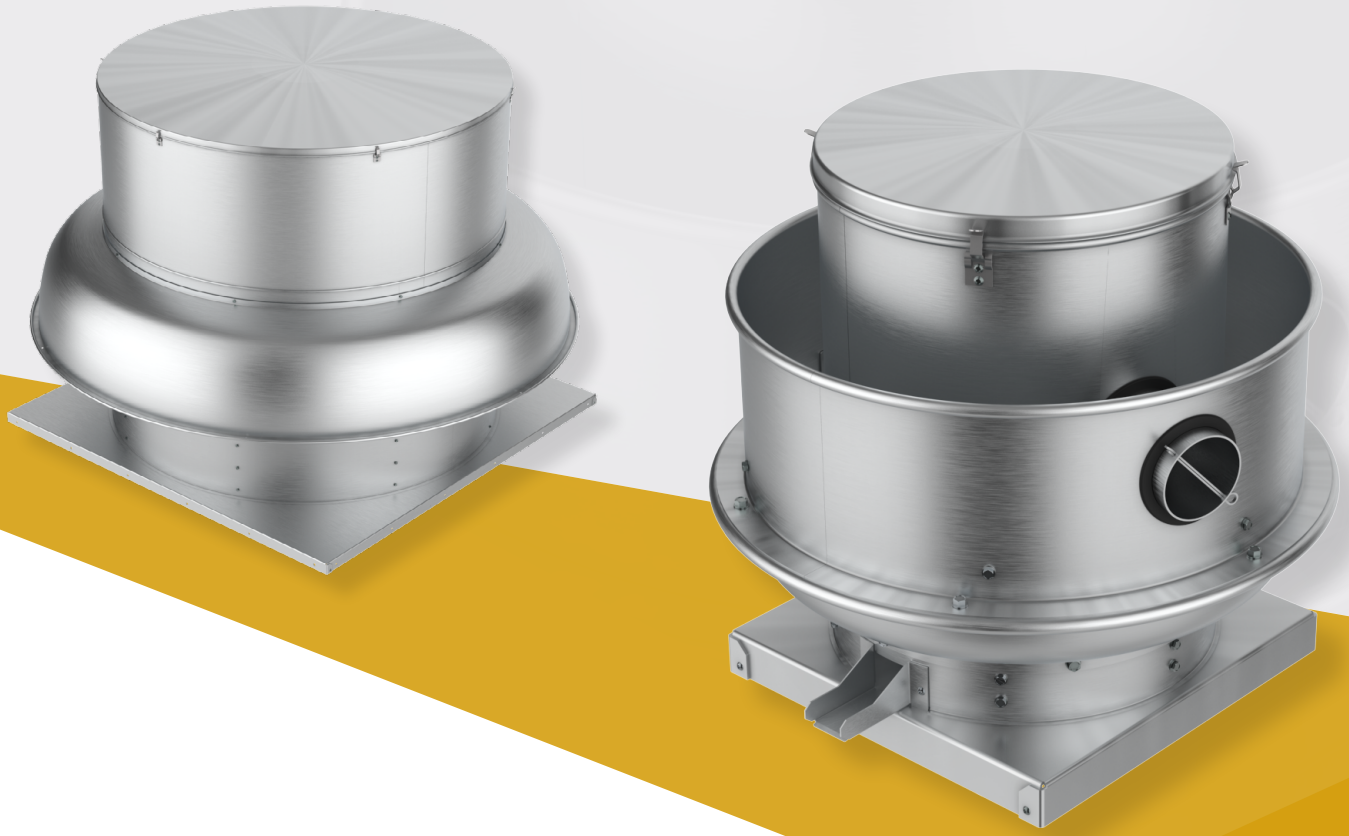
PRD - PRU Series

Powered Roof Ventilators

PRODUCT GUIDE



PENNBARRY™

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INTRODUCTION

PRD - PRU SERIES POWERED ROOF VENTILATORS

Powered Roof Ventilators - Downblast (PRD) are designed for roof mounted installations in low to medium pressure applications. PRD fans are ideal for general purpose exhaust applications including: bathrooms, garages, general kitchen areas, offices, churches, dormitories, factories, large warehouses and other relatively clean air applications.

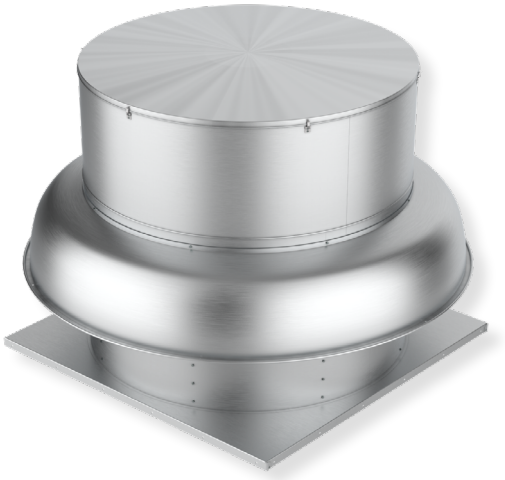
Powered Roof Ventilators - Upblast (PRU) are designed for medium to high pressure applications. While suitable for general ventilation, PRU fans are specially designed to discharge contaminated or grease-laden air or heat/smoke up and away from building surfaces. Additionally, the heat & smoke configuration is suitable for limited duration, one-time use at high temperature for emergency smoke exhaust.

Direct Drive Units

- Flow capacity up to 16,500 CFM. (7.79 m^3/s)
- Static Pressure up to 5.75" w.g. (1430 Pa)

Belt Drive Units

- Flow capacity up to 45,000 CFM. (21.24 m^3/s)
- Static Pressure up to 5.75" w.g. (1430 Pa)



CERTIFICATIONS & LISTINGS

PRD - PRU SERIES FANS

PennBarry certifies that the PRD - PRU models shown herein are 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.

UL AND cULus CERTIFICATION

PRD - PRU fans carry the UL label, UL705, (ZACT/ZACT7), file #E28413

PRU fans with Restaurant Exhaust option carry the UL/cUL 705 Listed Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" label (Formerly known as UL 762) (YZHW/ YZHW7), file #MH10684.

PRU fans with the heat and smoke removal option carry the UL/cUL 705 Listed Supplement SD Power Ventilators for Smoke Control Systems (Formerly known as UL Smoke) (ZAXH/ZAXH7), file #MH19473.

FEATURES AND BENEFITS

CFD AND FEA OPTIMIZED WHEEL

Our highly efficient backward inclined non-overloading wheel was designed using the latest Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) software. It provides excellent air performance with very low sound levels.

Backplate and inlet are stamped and the wheel features an aluminum riveted construction. Dynamic balancing ensures smooth vibration-free operation.

Wheel is available in 110%, 100%, 80% and 50% width to cover a large range of performance requirements.

REVERSE VENTURI

Reverse venturi reduces turbulence and improves distribution of the air as it enters the wheel inlet to maximize fan efficiency.

BEARING LIFE (BELT DRIVEN FANS)

Heavy-duty, air-handing quality bearings are sized for a Basic Life Rating (L_{10}) of 100,000 hours at the maximum operating speed and horsepower. Bearings are 100% pretested prior to installation for quality assurance.

DRIVE SELECTIONS (BELT DRIVEN FANS)

Cast iron variable pitch pulleys are adjustable, preset to the desired fan RPM, allowing for field balancing based on actual field conditions. All drive components are sized for at least 150% of the driven horsepower.

INTERNAL WIRING

The PRD and PRU units have NEMA 1 internal wiring to an appropriate external junction box as standard. Service disconnects are available as well. The initial electrical connection does not require internal access. NEMA 3R internal wiring is available as an option.

NOTE: Fans with explosion proof (EXP) motor enclosure are not provided with internal wiring.

SPEED CONTROLLER

Speed controllers allow for adjustment of the motor speed providing ease of system balancing after installation.

TOOL-FREE MOTOR COMPARTMENT ACCESS

Motor cover includes fasteners for easy removal and access to motor compartment and drive assembly.

INTEGRAL LIFTING LUGS

All units are furnished with lifting lugs integrated on the drive frame and bearing plate.

OPTIONS & ACCESSORIES

PIEZO RING ASSEMBLY (1)

Piezometer Ring measures the pressure differential across the fan inlet which can be converted to an airflow measurement. An optional transducer (w/readout) is available, along with the option to mount the transducer and transformer to power (24V) transducer.

BIRD SCREEN (2)

Bird screens are available for all direct and belt drive models, standard for all PRD sizes and optional for all PRU sizes. An aluminum insect screen with a smaller mesh than the standard bird screen is also available. However, please note that NFPA 96 installations do not allow the use of bird or insect screens. The requirements of local codes must be reviewed to determine if there are any conflicts.

DAMPER (3)

Backdraft dampers are available for either gravity or motorized operation (motor kit optional). Dampers feature square galvanized steel frames and multi-leaf, roll formed aluminum blades with nylon bearings. Backdraft dampers should not be used when venting kitchen hoods. NFPA 96 installations do not allow the use of dampers. The requirements of local codes must be reviewed to determine if there are any conflicts.

PEDESTAL (4)

The 12" high mounting pedestal, available in aluminum or galvanized steel, incorporates a removable access panel for easy inspection and service of motor operated backdraft dampers. It provides solid ventilator support and a weather resistant seal that does not injure or disturb flashing. This item should not be used on units with UL762 Restaurant Exhaust certification.

CURB ADAPTER (5)

All PRU and PRD units are compatible with existing installations of Domex and Fumex fans using the optional curb adaptor without the need to modify the roof openings or existing curb dimensions.

HINGE KIT (6)

This assembly connects the exhauster directly to the roof curb and provides the same level of access as the hinged sub-base. Available up to size 365.

HINGED SUB-BASE (7)

Hinged sub-bases provide access to the curb well for damper service or the clean out for grease applications. Constructed with a rust proof hinge arrangement and low height, the assembly is easily manipulated and reduces the impact on overall installation height. This accessory is available for use with most models for either factory built or existing roof curbs.

TIE DOWN BRACKET (8)

Tie down brackets available for securing the units in high wind applications.

GREASE COLLECTOR (9)

Grease collector designed to collect grease residue in order to avoid any possible drainage onto the roof surface.

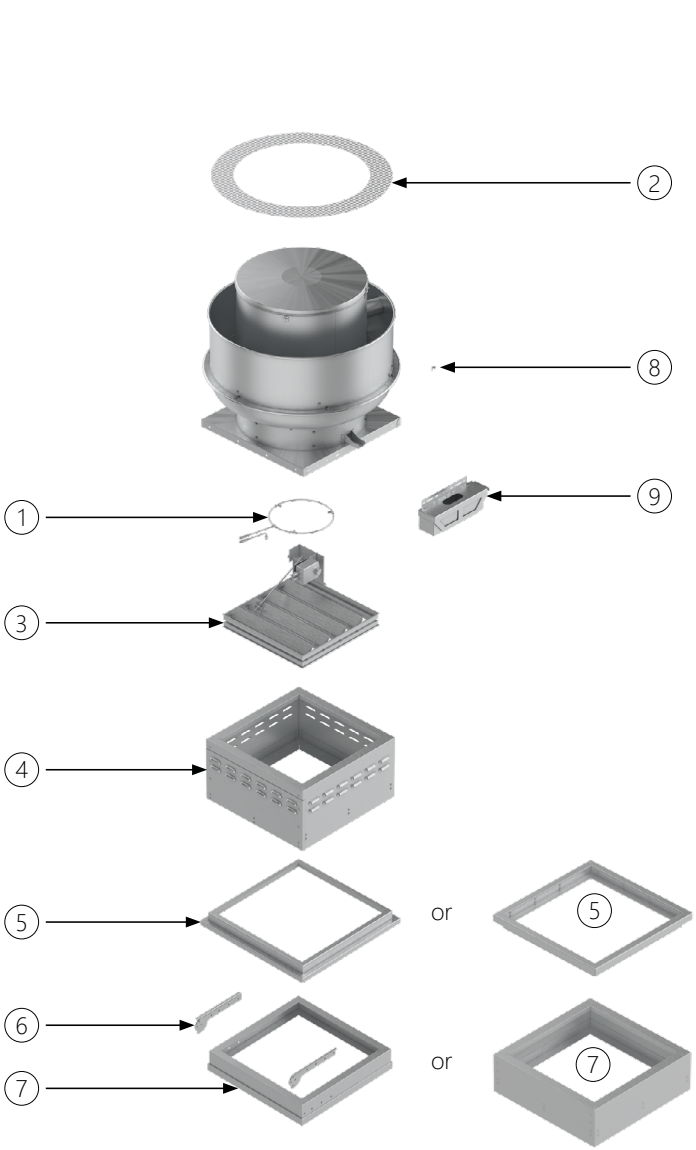
WALL ADAPTER (10)

Adapter that allows for installing the PRU unit in a horizontal discharge with a square mounting base. Wall adapter available up to size 300 and motor sizes up to 2 HP.

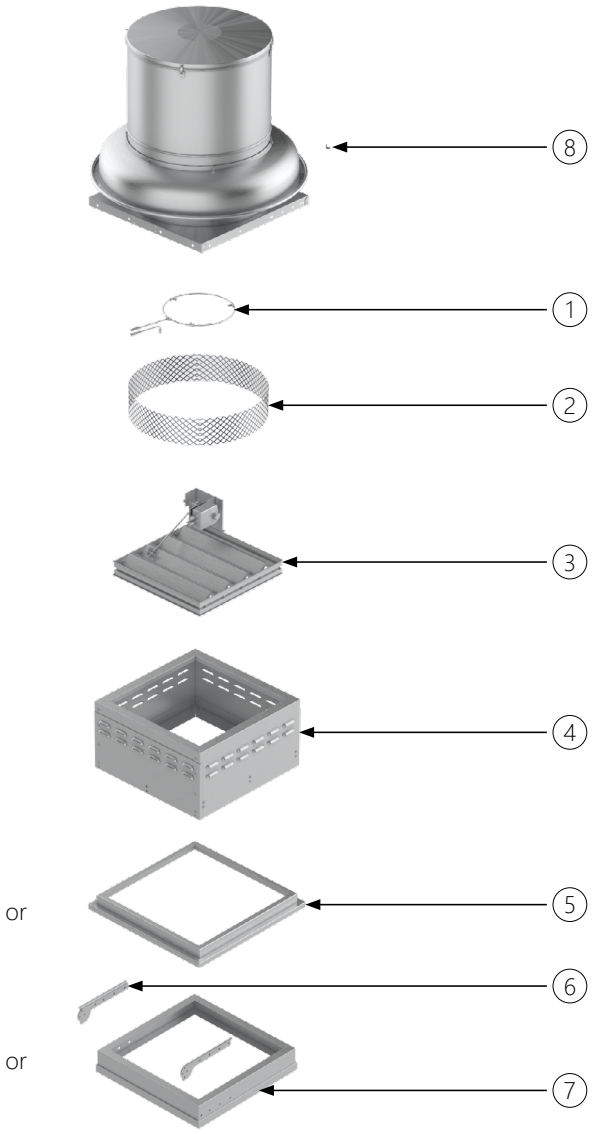
OIL DRAIN PAN (11)

Drain pan designed to collect grease residue in PRU wall installations.

OPTIONS & ACCESSORIES

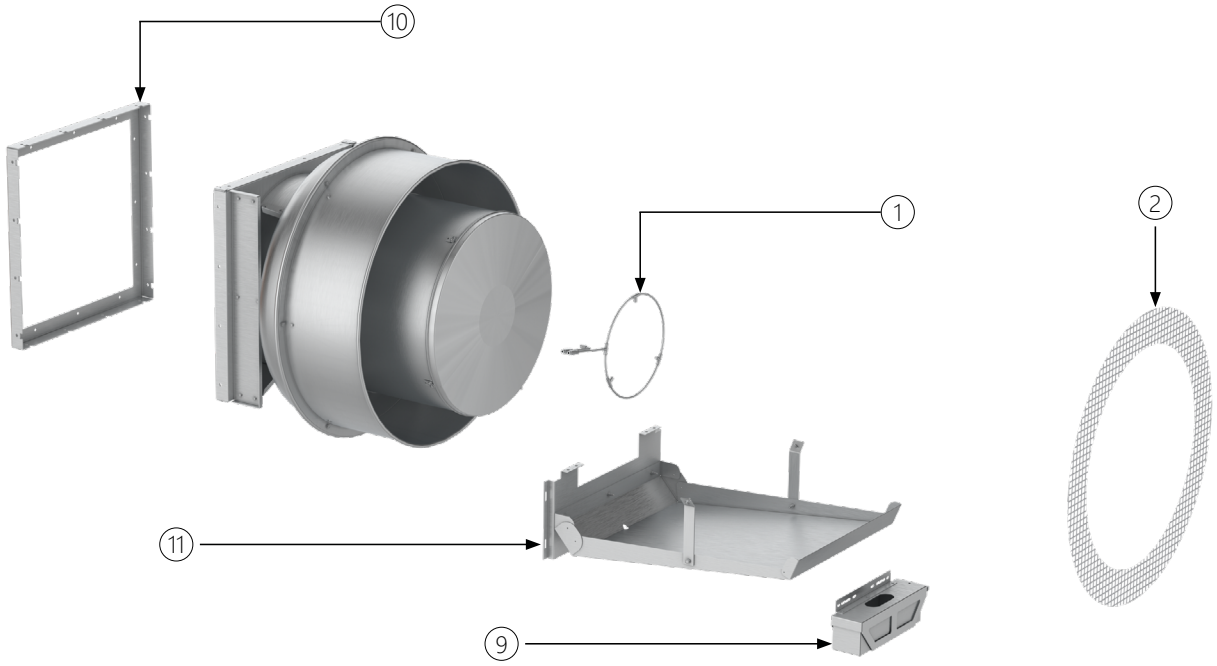


PRU with accessories



PRD with accessories

OPTIONS & ACCESSORIES



PRU wall mount with accessories

OPTIONS & ACCESSORIES

SPARE BELTS

An extra set of one or two spare belts can be provided with the fan.

STAINLESS STEEL HARDWARE

Stainless steel hardware is available for corrosive ambient or air stream conditions.

STAINLESS STEEL SHAFT

If another material is desired for the fan shaft, stainless steel shafts are available for selection.

FIRESTAT SWITCH

Firestat switch automatically disconnects the unit when the temperature of the air being exhausted exceeds a preset rating.

SAFETY SERVICE SWITCH

Safety service switches are available to allow positive electrical shut-off. Switches are factory mounted when factory wiring is requested. Wiring is only run from the motor to the junction box. (Factory wiring of explosion proof applications is not available.) A wide range of NEMA rated enclosures are available for indoor, outdoor and explosion proof installations. Service switches are to be field wired by a licensed electrician.

FINISHES

Coatings such as Polyester Powder Coat, Epoxy Powder Coat, Phenolic Epoxy Powder Coat, and others are available. See the coatings brochure for details.

AUTOMATIC BELT TENSIONER

Belt tensioner increases life of the belts by maintiaining proper tension thus reducing manual maintenance to tension belts. Tensioners are available up to 10·hp motors and are not available on Life Safety applications.

DUAL WIRING CONDUIT

Dual conduit for separating power and control signal electrical wiring through the curb cap into the motor compartment.

STAINLESS STEEL HARDWARE

If another material is desired for the unit's hardware, stainless steel hardware is available for selection.

MOTOR AND VFD AVAILABILITY*

Unit Size	Max HP	Max Fan RPM	ECM	PM Motor		Induction Motor	
			HP Range - 1/6 HP to 3/4 HP	HP Range - 1/2 HP to 10 HP		HP 1/4 hp to 15 hp	
			RPM Range - 400 to 1725	RPM Range - 350 to 2332		RPM Range 870 to 3600, 1450 (50 Hz)	
			Enclosure - ODP, 115V/230V/277V, 1-ph, 60/50 Hz	Enlosure - TENV ≤ 2 hp > TEFC, 230V/240V/(380V-480V), 3-phase, 50/60 Hz		Enclosure - ODP, TEFC Voltages 115-120V/230-240V, 1-phase, 50/60 Hz, 220V-240V/380V-480V, 3-phase, 50/60 Hz	
			Direct Drive Only	Direct Drive - PM Motor w/On board Mtr. Spd. Cntrl	Belt Drive - PM Motor w/On board Mtr. Spd. Cntrl	Direct Drive w/ or w/o VFD	Belt Drive w/ or w/o VFD
060	1/4 HP	2,152	X	N/A	N/A	N/A	N/A
070	1/4 HP	2,152	X	N/A	N/A	N/A	N/A
080	1/4 HP	2,152	X	N/A	N/A	N/A	N/A
100	1/4 HP	2,032	X	N/A	N/A	N/A	N/A
122	1/2 HP	1,845	X	N/A	N/A	N/A	N/A
135	1 HP	1,937	N/A	X	X	X	X
150	1.5 HP	2,122	N/A	X	X	X	X
165	3 HP	2,076	N/A	X	X	X	X
182	3 HP	1,800	N/A	X	X	X	X
200	5 HP	1,533	N/A	X	X	X	X
222	5 HP	1,438	N/A	X	X	X	X
245	7.5 HP	1,783	N/A	X	X	X	X
270	10 HP	1,544	N/A	X	X	X	X
300	10 HP	1,442	N/A	X	X	X	X
330	10 HP	1,319	N/A	N/A	X	N/A	X
365	10 HP	1,100	N/A	N/A	X	N/A	X
402	10 HP	956	N/A	N/A	X	N/A	X
445	10 HP	849	N/A	N/A	X	N/A	X
490	15 HP	731	N/A	N/A	N/A	N/A	X
542	15 HP	651	N/A	N/A	N/A	N/A	X

* VFD will ship loose for field installation by others. Indoor installation of VFD is recommended. If the VFD will be installed outdoors, a weather resistant enclosure (provided and installed by others) is required.

VARIABLE FREQUENCY DRIVES

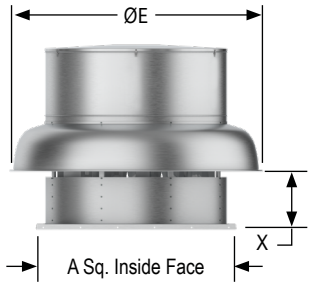
Variable frequency drives (VFDs) are designed to meet performance requirements while increasing efficiency. By varying the fan motor input frequency and voltage, the VFD controls the motor speed and torque, helping to improve productivity and lower energy consumption. The VSC and VSA are ideal for both new and retrofit fan applications. Shipped loose for field installation.

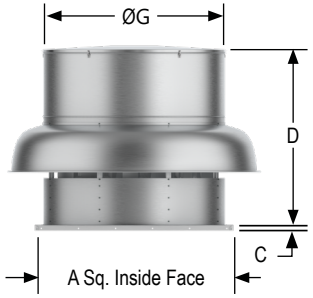
MOTOR AND VFD AVAILABILITY*

GREEN PLUS ELECTRONICALLY COMMUTATED MOTOR

The Green Plus (GP) option utilizes EC motors to provide significantly greater efficiency, flexibility, and controllability over standard direct drive permanent split capacitor (PSC) motors. Using the included potentiometer, the Green Plus motors can be turned down to as low as 80% the max operating speed while maintaining 90% efficiency through the operating range. Additionally, the Green Plus can accept 0-10V input to tie to building management systems, not only allowing for savings in direct fan energy consumption but reducing the exhaust of conditioned air during off peak hours as well. All Green Plus motors come in open enclosure or totally enclosed for usage with 115V-208V/230V or 277V, single phase, 50/60 Hz applications.

DIMENSIONAL DATA - PRD

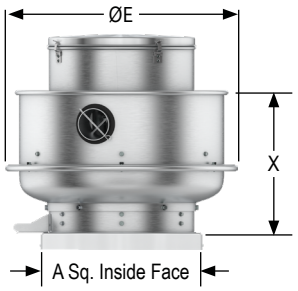


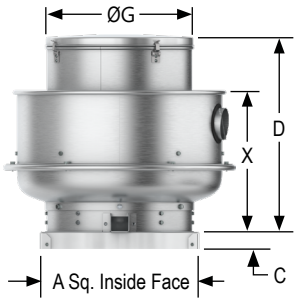


Sizes	X	E	D	G	A	C	WEIGHT (lbs)		MAX MTR FRAME
							BELT	DIRECT	
060	**2"** (5)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	40	36	48
070	**2"** (5)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	41	37	48
080	**2"** (5)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	42	38	48
100	**2"** (5)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	39	35	48
122	**2 1/2"** (6.5)	**30 1/4"** (77)	**24 1/2"** (62)	**19 3/4"** (50)	**21"** (53.5)	**1 13/16"** (4.5)	51	45	48
135	**3 5/16"** (8.5)	**30 1/4"** (77)	**25 5/16"** (64)	**19 3/4"** (50)	**21"** (53.5)	**1 13/16"** (4.5)	52	46	48
150	**3 3/4"** (9.5)	**33 1/4"** (84.5)	**26 1/4"** (67)	**21 7/8"** (55.5)	**23 3/8"** (59.3)	**1 13/16"** (4.5)	56	53	145T
165	**4 3/16"** (10.5)	**36 1/4"** (92)	**29"** (73.5)	**24 1/8"** (61)	**25 5/8"** (65)	**1 13/16"** (4.5)	67	62	145T
182	**4 5/8"** (12)	**39 3/4"** (101)	**32 9/16"** (83)	**26 5/8"** (67.5)	**28 3/8"** (72)	**1 13/16"** (4.5)	75	72	184T
200	**5"** (13)	**43 1/4"** (110)	**33 13/16"** (86)	**29 1/8"** (74)	**31 1/8"** (79)	**1 13/16"** (4.5)	92	90	184T
222	**5 3/4"** (14.5)	**47 3/4"** (121)	**35 7/8"** (91)	**32 1/4"** (82)	**34 9/16"** (88)	**1 13/16"** (4.5)	110	105	184T
245	**7 1/8"** (18)	**47 3/4"** (121)	**37 5/16"** (95)	**32 1/4"** (82)	**34 9/16"** (88)	**1 13/16"** (4.5)	121	118	215T
270	**7 7/8"** (20)	**52 3/8"** (133)	**39 3/4"** (101)	**35 1/2"** (90)	**38 1/4"** (97)	**1 13/16"** (4.5)	140	135	215T
300	**8 3/4"** (24)	**57 3/4"** (146.5)	**41 3/4"** (106)	**39 3/8"** (100)	**42 1/2"** (108)	**1 13/16"** (4.5)	165	160	215T
330	**9 9/16"** (24)	**63 1/4"** (160.5)	**43 7/8"** (111.5)	**43 3/8"** (110)	**46 5/8"** (118.5)	**1 7/8"** (5)	211	-	215T
365	**10 5/8"** (27)	**69 11/16"** (177)	**46 1/2"** (118)	**47 7/8"** (121.5)	**51 5/8"** (131)	**1 7/8"** (5)	250	-	215T
402	**11 3/4"** (30)	**76 7/16"** (194)	**48 15/16"** (124.5)	**52 3/4"** (134)	**56 7/8"** (144.5)	**1 7/8"** (5)	290	-	215T
445	**14 5/8"** (37)	**71 1/4"** (181)	**51 9/16"** (131)	**51 1/8"** (130)	**55 1/4"** (140.5)	**1 7/8"** (5)	351	-	215T
490	**16 1/8"** (41)	**78 1/8"** (198.5)	**57 1/4"** (145.5)	**56 1/4"** (143)	**60 3/4"** (154.5)	**1 7/8"** (5)	408	-	254T
542	**17 13/16"** (45)	**86 1/4"** (219)	**60 3/4"** (154.5)	**62 1/4"** (158)	**67 3/8"** (171)	**1 7/8"** (5)	461	-	254T

NOTE: - Dimensions in parenthesis ( ) indicate Centimeter

DIMENSIONAL DATA - PRU





Sizes	X	E	D	G	A	C	WEIGHT (lbs)		MAX MTR FRAME
							BELT	DIRECT	
060	**14 15/16"** (38)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	56	41	48
070	**14 15/16"** (38)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	57	42	48
080	**14 15/16"** (38)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	58	43	48
100	**14 15/16"** (38)	**25 1/4"** (64)	**21 1/2"** (55)	**16 1/4"** (41)	**17 1/8"** (43.5)	**1 13/16"** (4.5)	55	40	48
122	**18 1/8"** (46)	**30 1/4"** (77)	**24 1/2"** (62)	**19 3/4"** (50)	**21"** (53.5)	**1 13/16"** (4.5)	70	52	48
135	**19 1/4"** (49)	**30 1/4"** (77)	**25 5/16"** (64)	**19 3/4"** (50)	**21"** (53.5)	**1 13/16"** (4.5)	75	55	48
150	**20 3/4"** (53)	**33 1/4"** (84.5)	**26 1/4"** (67)	**21 7/8"** (55.5)	**23 3/8"** (59.3)	**1 13/16"** (4.5)	80	62	145T
165	**21 3/4"** (55)	**36 1/4"** (92)	**29"** (73.5)	**24 1/8"** (61)	**25 5/8"** (65)	**1 13/16"** (4.5)	90	72	145T
182	**24 1/16"** (61)	**39 3/4"** (101)	**32 9/16"** (83)	**26 5/8"** (67.5)	**28 3/8"** (72)	**1 13/16"** (4.5)	105	85	184T
200	**25 1/16"** (63.5)	**43 1/4"** (110)	**33 13/16"** (86)	**29 1/8"** (74)	**31 1/8"** (79)	**1 13/16"** (4.5)	110	96	184T
222	**27 15/16"** (71)	**47 3/4"** (121)	**35 7/8"** (91)	**32 1/4"** (82)	**34 9/16"** (88)	**1 13/16"** (4.5)	130	115	184T
245	**29 15/16"** (76)	**47 3/4"** (121)	**37 5/16"** (95)	**32 1/4"** (82)	**34 9/16"** (88)	**1 13/16"** (4.5)	143	133	215T
270	**33 1/4"** (84.5)	**52 3/8"** (133)	**39 3/4"** (101)	**35 1/2"** (90)	**38 1/4"** (97)	**1 13/16"** (4.5)	162	153	215T
300	**34 1/4"** (87)	**57 3/4"** (146.5)	**41 3/4"** (106)	**39 3/8"** (100)	**42 1/2"** (108)	**1 13/16"** (4.5)	190	177	215T
330	**37 7/8"** (96)	**63 1/4"** (160.5)	**43 7/8"** (111.5)	**43 3/8"** (110)	**46 5/8"** (118.5)	**1 7/8"** (5)	250	-	215T
365	**40 1/8"** (102)	**69 5/8"** (177)	**46 1/2"** (118)	**47 7/8"** (121.5)	**51 5/8"** (131)	**1 7/8"** (5)	280	-	215T
402	**41 11/16"** (106)	**76 7/16"** (194)	**48 15/16"** (124.5)	**52 3/4"** (134)	**56 7/8"** (144.5)	**1 7/8"** (5)	325	-	215T
445	**45 3/8"** (115.5)	**71 1/4"** (181)	**51 9/16"** (131)	**51 1/8"** (130)	**55 1/4"** (140.5)	**1 7/8"** (5)	390	-	215T
490	**49"** (124.5)	**78 1/8"** (198.5)	**57 1/4"** (145.5)	**56 1/4"** (143)	**60 3/4"** (154.5)	**1 7/8"** (5)	460	-	254T
542	**53 7/16"** (136)	**86 1/4"** (219)	**60 3/4"** (154.5)	**62 1/4"** (158)	**67 3/8"** (171)	**1 7/8"** (5)	532	-	254T

FAN SELECTIONS

Model

PRD / PRU

Construction

Tag
<enter value>

Altitude
<enter value>

Temperature (°F)
<enter value>

Application Flow (CFM)
<enter value>

Application Static Pressure (inwg)
<enter value>

Unit size
060
070
080
100
122
135
150
165
182
200
222
245
270
300
330
365
402
445
490
542

Drive Type
B = Belt
D = Direct

Fan Speed
<####>

Impeller Type
B = Backward Inclined

Rotation/Discharge
U = Exhaust

Motors and Drives
F = Factory Supplied
L = Less Motor, Less Drive
X = Special

V-Belt Drive Kit
0 = None
A = Adjustable Drive Kit
C = Constant Drive Kit
L = Life Safety
X = Special

Bearing Life
0 = None
C = L10 100K Hours

Unit Material
A = Aluminum

Shaft Material
H = Mild Steel
S = 304 Stainless Steel

Stainless Hardware
0 = Standard / None
S = Stainless Hardware

Paint/Coating
0 = None
F = Epoxy Powder Coat (Light Gray)
G = Epoxy Powder Coat with UV Protection (Gray)
J = Non-Stick Powder Coat (Clear)
K = Phenolic Epoxy Powder Coat (Gray)
L = Phenolic Epoxy Powder Coat with UV Protection (Gray)
N = Polyester Powder Coat*
X = Special
*Colors only available for PPC

Paint Color
0 = None
B = Chrome green
C = Pale green
D = Dove Gray (PPC Standard)
E = White
F = Oxford beige
G = Dover white
H = Desert tan
J = Black
K = Smoke gray
L = Brick red
M= Peppercorn
N = Pale brown
P = Chocolate brown
Q = Timeless bronze
R = Charcoal
X = Special
*Colors only available for PPC

UL / ETL Listing
0 = None
1 = UL 705
3 = UL 762 Restaurant Exhaust
4 = UL Heat and Smoke

FAN SELECTIONS

Motor

Horsepower

.020 = 1/50
.033 = 1/30
.040 = 1/25
.050 = 1/20
.083 = 1/12
.091 = 1/11
.143 = 1/7
.167 = 1/6
.200 = 1/5
.250 = 1/4
.333 = 1/3
.500 = 1/2
.750 = 3/4
1.00 = 1
1.50 = 1 1/2
2.00 = 2
3.00 = 3
5.00 = 5
7.50 = 7 1/2
10.0 = 10
15.0 = 15
20.0 = 20
25.0 = 25

Enclosure

0 = None
1 = TEFC
2 = TENV
3 = TEAO
4 = OPAO
5 = ODP
6 = OP (Open)
7 = EXP C2D1
X = Special

Efficiency

G = Gplus (ECM)
M = Gplus (Permanent Magnet)
P = Premium
S = Standard

Voltage

A = 115V
B = 208V
C = 230V
D = 277V
F = 460V
G = 575V
H = 220V
J = 380V
K = 400V

Phase

1 = 1 Phase
3 = 3 Phase

Frequency

5 = 50 Hz
6 = 60 Hz

Speed

0 = None
A = 900 RPM
B = 1200 RPM
C = 1800 RPM
D = 3600 RPM
I = 600 RPM
S = 1725 RPM

Shaft Grounding Ring

0 = None
S = Shaft Grounding Ring

Thermal Overload Protection

0 = None
T = Thermal Overload Protection

FAN SELECTIONS

Options and Accessories

VFD / Starters
0 = None
1 = Loose 115v 1ph to 230v 3ph Mtr Speed Controller IP22
2 = Loose 115v 1ph to 230v 3ph Mtr Speed Controller IP52
4 = Loose 200-240v 1ph to 3ph Mtr Speed Controller IP22
5 = Loose 200-240v 1ph to 3ph Mtr Speed Controller IP52
7 = 115v 1ph to 230v 3ph On Board Mtr Speed Controller IP22
8 = 115v 1ph to 230v 3ph On Board Mtr Speed Controller IP52
J = 200-240v 1ph to 3ph On Board Mtr Speed Controller IP22
K = 200-240v 1ph to 3ph On Board Mtr Speed Controller IP52
M= On board motor speed controller // IP22 or less
N= On board motor speed controller // IP52 or better
Q= Loose Mtr Spd Ctrlr (up to IP22)
R = Loose Mtr Spd Ctrlr (IP52 or better)
V = VFD
F = Field Provided VFD

Controllers
0 = None / Provided by others
3 = Multi speed controller, iQ-MS (ECM only)
4 = iQ-IPCM no power supply (ECM only)
5 = iQ-IPCM w/ 115V/230V power supply (ECM only)
6 = iQ-IPCM w/ 277V power supply (ECM only)
8 = 0-10v BMS wiring only (ECM only)
9 = Installed Multi speed controller, iQ-MS (ECM only)

Sensors
0 = None
A = Airminder switch (time delay)
B = Airminder+firestat
F = Firestat switch

Spare Belts
0 = None
1 = 1 spare set
2 = 2 spare set

Service Switches
0 = None
A = NEMA 1 - loose
C = NEMA 1 - mounted
D = NEMA 3R - loose
F = NEMA 3R - mounted
G = NEMA 4 - loose
N = NEMA 7/9 - loose

Internal Wiring
1 = NEMA 1
3 = NEMA 3

Spark Resistant Construction
0 = None
B = AMCA B Spark Resistance
C = AMCA C Spark Resistance

Inlet and Outlet Guards / Screens
0 = None
B = Bird Screen (standard)
C = Insect/Bird Screen

Extended Lube Lines
0 = None
C = Extended Copper Lube Lines
L = Extended polyamide lube lines

Curb Cap
0 = None
A = Aluminum curb cap (standard)
S = Steel curb cap

High Wind Certification
0 = None
H = High Wind Certification

Crating Option
0 = Standard
1 = Premium 1
2 = Premium 2

Damper
0 = None
D = Damper

Curb
0 = None
C = Curb

Wheel Width
00 = Standard 100%
80 = Partial Width 80%
50 = Partial Width 50%
30 = Partial Width 30%
11 = Increased Width

Floating Hinge Kit
0 = None
F = Floating hinge kit (aluminum base)
G = Floating hinge kit (steel base)

Hinge Sub-Base
0 = None
H = Hinged sub-base (aluminum base)
J = Hinged sub-base (steel base)

Pedestal
0 = None
A = Galvanized pedestal
B = Galvanized vented pedestal
C = Aluminum pedestal
D = Aluminum vented pedestal

Wall Mounting Adaptor
0 = None
W = Wall mounted adaptor

Curb Adaptor
0 = None
C = Curb Adaptor

Existing Curb Size
0 = None
A = 17 inch (DX sizes 06,08,10,11D,13)
B = 19 inch (DX sizes 11B,111, 16D)
C = 23.25 inch (DX sizes 12, 121, 14, 141)
D = 27 inch (DX sizes 16B, ,161, 18, 181)
E = 32 inch (DX sizes 24, 241D)
F = 35 inch (DX sizes 27,30)
G = 43 inch (DX size 36)
H = 51 inch (DX size KB420)
J = 57.5 inch (DX size JB48)
K = 62 inch (DX size MB542)
L = 17 inch (FX sizes 08D,10D,11D,13D)
M= 19 inch (FX sizes 16D)
N = 23.25 inch (FX sizes 8B, 10B, 12BH, 13B, 14)
P = 27 inch (FX sizes 16B, 18, 181)
Q = 32 inch (FX sizes 24B, 241D)
R = 35 inch (FX sizes 27,30)
S = 43 inch (FX size 36)
T = 57.5 inch (FX size FMX50)
X = Special

Belt Tensioner
0 = None
B = Belt Tensioner

Tie Down Brackets
0 = None
T = Tie Down Brackets

Grease Trap Accessory
0 = None
G = Grease Trap only
H = Grease Trap with Absorbent Material

Piezometer Ring
0 = None
R = Piezometer Ring
T = Piezometer Ring w/ Pressure Transducer

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Commercial

- Roof & wall exhaust centrifugal fans
- Ceiling, wall, & inline centrifugal fans
- Roof supply centrifugal fans
- Square & round centrifugal fans
- Wall mounted axial fans
- Hooded roof axial fans
- Upblast roof axial fans
- Gravity ventilators
- Roof curbs

Industrial

- Freestanding centrifugal fans
- Industrial & material handling fans
- Tubular centrifugal inline fans
- Mixed flow centrifugal fans
- Plenum fans
- Wall mounted propeller fans
- Tube axial fans
- Vane axial fans
- Lab exhaust

Kitchen ventilation

- Exhaust fans

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