Marc Climatic Controls, Inc.

HAZARDOUS LOCATION

Packaged Air Conditioners & Heat Pumps

C-Series 1-1/2 to 20 Tons

Class I, Division 2, Groups B, C, D

PACX - PHPX "C" SERIES

C US

PACX121-436

Features:

- CSA certified assuring safety and performance.
- Spark-proof construction.
- Aluminum blower wheel(s) and condenser fan blade(s).
- Thermostat on intrinsically-safe circuit.
- NPT conduit connection and terminals for easy power and control wiring .
- No conduit seal required.
- Aluminum finned copper tube coils provide maximum transfer.
- Horizontal or down discharge air flow.
- Fully insulated evaporator section.
- Coil guard.

Options:

- ***Electric heat*** with stainless steel finned-tubular elements (air conditioners only).
- Steam heat.
- Stainless steel cabinet.
- Corrosion coatings extend cabinet and coil life in harsh environments for reduced maint-enance and increased long term cost savings.
- Tropicalization.
- Copper-finned copper tube coils.
- Complete ductwork system.
- Fresh air make-up with weatherhood.
- NFPA Type Z pressurization with motorized or pneumatic dampers (air conditioners only), or auxilliary blower(s).
- Top vertical supply air discharge.
- Disconnect.
- 50 HZ Service.
- TEFC or explosion-proof (Groups C,D) motors.
- Contacts for loss of air flow.

PACKAGED AIR CONDITIONERS
PACX-C SERIES
R-22 (other refrigerants available)
- 60 HZ -

HAZARDOUS LOCATIONS
CLASS I, DIVISION 2, GROUPS B, C, D
OPERATING TEMPERATURE CODE
T3C - 320°F (160°C)

The air conditioners shown below are certified by CSA International to U.S. and Canadian standards for use in Class I, Division 2, Groups B, C, D hazardous (classified) locations. CSA International is accredited as a Nationally Recognized Testing Laboratory by the U.S. Occupational Safety and Health Administration (OSHA).

Model	Nom. Tons	Cooling BTUH Total (1)	Cooling BTUH Sensible	Volts Phase Hertz	MCA (2)	MFS (3)	Indoor Blower (4)	CFM & E.S.P.	Net Wt. LBS
PACX023-216	2	24,000	18,200	230/208-1-60	16.5	20	0.33 HP - DD	853 @ 0.8	405
PACX029-216	2.5	30,000	22,800	230/208-1-60	20.4	25	0.33 HP - DD	1088 @ 0.6	430
PACX029-236	2.5	30,000	22,800	230/208-3-60	14.7	20	0.33 HP - DD	1088 @ 0.6	430
PACX035-216	3	36,000	27,400	230/208-1-60	24.0	30	0.5 HP - DD	1208 @ 0.8	495
PACX035-236	3	36,000	27,400	230/208-3-60	17.4	25	0.5 HP - DD	1208 @ 0.8	495
PACX035-436	3	36,000	27,400	460-3-60	8.5	15	0.5 HP - DD	1208 @ 0.8	495
PACX041-216	3.5	41,500	30,000	230/208-1-60	28.0	35	0.5 HP - DD	1540 @ 0.8	520
PACX041-236	3.5	41,500	30,000	230/208-3-60	19.6	25	0.5 HP - DD	1540 @ 0.8	520
PACX041-436	3.5	41,500	30,000	460-3-60	9.5	15	0.5 HP - DD	1540 @ 0.8	520
PACX047-216	4	47,000	35,700	230/208-1-60	28.5	35	0.5 HP - DD	1595 @ 0.6	540
PACX047-236	4	47,000	35,700	230/208-3-60	19.6	25	0.5 HP - DD	1595 @ 0.6	540
PACX047-436	4	47,000	35,700	460-3-60	9.5	15	0.5 HP - DD	1595 @ 0.6	540
PACX057-216	5	57,000	45,300	230/208-1-60	39.0	50	1 HP - DD	1812 @ 0.5	555
PACX057-236	5	57,000	45,300	230/208-3-60	28.7	35	1 HP - DD	1812 @ 0.5	555
PACX057-436	5	57,000	45,300	460-3-60	13.2	20	1 HP - DD	1812 @ 0.5	555
PACX076-236	6	76,200	56,800	230/208-3-60	32.4	40	2.4 BHP - BD	2400 @ 0.6	580
PACX076-436	6	76,200	56,800	460-3-60	15.4	20	2.4 BHP - BD	2400 @ 0.6	580
PACX091-236	7.5	91,600	68,800	230/208-3-60	40.1	45	2.4 BHP - BD	3000 @ 0.8	815
PACX091-436	7.5	91,600	68,800	460-3-60	18.4	20	2.4 BHP - BD	3000 @ 0.8	815
PACX101-236	8.5	101,100	71,900	230/208-3-60	44.3	50	2.4 BHP - BD	3400 @ 0.6	860
PACX101-436	8.5	101,100	71,900	460-3-60	21.0	25	2.4 BHP - BD	3400 @ 0.6	860
PACX121-236	10	121,000	91,400	230/208-3-60	44.6	50	2.4 BHP - BD	4000 @ 0.6	1015
PACX121-436	10	121,000	91,400	460-3-60	22.0	25	2.4 BHP - BD	4000 @ 0.6	1015
PACX147-236	12.5	147,600	112,500	230/208-3-60	56.2	70	3.7 BHP - BD	5000 @ 0.6	1030
PACX147-436	12.5	147,600	112,500	460-3-60	26.5	30	3.7 BHP - BD	5000 @ 0.6	1030
PACX189-236	15	189,000	135,000	230/208-3-60	82.0	110	5 HP - BD	6000 @ 1.0	1750
PACX189-436	15	189,000	135,000	460-3-60	41.0	50	5 HP - BD	6000 @ 1.0	1750
PACX237-236	18	237,000	183,000	230/208-3-60	87.0	110	5 HP - BD	7000 @ 0.6	1810
PACX237-436	18	237,000	183,000	460-3-60	44.0	50	5 HP - BD	7000 @ 0.6	1810
PACX249-236	20	249,000	188,000	230/208-3-60	124.0	150	7.5 HP - BD	8000 @ 1.0	1870
PACX249-436	20	249,000	188,000	460-3-60	61.0	80	7.5 HP - BD	8000 @ 1.0	1870

(1) Rated at 95°F ambient with 80°DB / 67° WB return air temperature.
(2) MCA: Minimum Circuit Ampacity.
(3) MFS: Recommended Time Delay Fuse or HACR Type Circuit Breaker.
(4) (B)HP = (Brake)Horsepower
DD = Direct Drive
BD = Belt Drive (higher external static is available with oversized motor).

Note 1: Supply and return air discharge is convertible (horizontal or vertical) in sizes 2 to 12.5 ton.
Note 2: 2 through 6 ton sizes are single compressor. 7.5 and larger are dual compressor.
Specifications are subject to change without notice.
5-31-07

Marc Climatic Controls, Inc.
P. O. Box 218309 • Houston, Texas 77218 USA
Phone (713) 464-8587 • Fax (713) 468-8810
www.marcclimatic.com • E-mail: sales@marcclimatic.com

PACKAGED HEAT PUMPS
PHPX-C SERIES
R-22 (other refrigerants available)
- 60 HZ -

HAZARDOUS LOCATIONS
CLASS I, DIVISION 2, GROUPS B, C, D
OPERATING TEMPERATURE CODE
T3C - 320°F (160°C)

The heat pumps shown below are certified by CSA International to U.S. and Canadian standards for use in Class I, Division 2, Groups B, C, D hazardous (classified) locations. CSA International is accredited as a Nationally Recognized Testing Laboratory by the U.S. Occupational Safety and Health Administration (OSHA).

Model	Nom. Tons	Cooling BTUH Gross (1)	Cooling BTUH Sensible	Heating BTUH (2)	Volts Phase Hertz	MCA (3)	MFS (4)	Indoor Blower (5)	CFM & E.S.P. Cooling	Net Wt. LBS
PHPX023-216	2	24,000	18,200	22,400	230/208-1-60	16.5	20	0.33 HP - DD	853 @ 0.8	405
PHPX029-216	2.5	30,000	22,800	29,000	230/208-1-60	20.4	25	0.33 HP - DD	1088 @ 0.6	430
PHPX029-236	2.5	30,000	22,800	29,000	230/208-3-60	14.1	20	0.33 HP - DD	1088 @ 0.6	430
PHPX035-216	3	36,000	27,400	35,000	230/208-1-60	24.0	30	0.5 HP - BD	1208 @ 0.8	495
PHPX035-236	3	36,000	27,400	35,000	230/208-3-60	16.8	20	0.5 HP - BD	1208 @ 0.8	495
PHPX035-436	3	36,000	27,400	35,000	460-3-60	8.5	15	0.5 HP - BD	1208 @ 0.8	495
PHPX041-216	3.5	41,500	30,000	41,500	230/208-1-60	28.0	35	0.5 HP - BD	1540 @ 0.8	520
PHPX041-236	3.5	41,500	30,000	41,500	230/208-3-60	20.5	25	0.5 HP - BD	1540 @ 0.8	520
PHPX041-436	3.5	41,500	30,000	41,500	460-3-60	9.5	15	0.5 HP - BD	1540 @ 0.8	520
PHPX047-216	4	47,000	35,700	47,000	230/208-1-60	28.5	35	0.5 HP - BD	1595 @ 0.6	540
PHPX047-236	4	47,000	35,700	47,000	230/208-3-60	21.1	25	0.5 HP - BD	1595 @ 0.6	540
PHPX047-436	4	47,000	35,700	47,000	460-3-60	9.5	15	0.5 HP - BD	1595 @ 0.6	540
PHPX057-216	5	57,000	43,300	55,000	230/208-1-60	39.5	50	1 HP - BD	1812 @ 0.5	555
PHPX057-236	5	57,000	43,300	55,000	230/208-3-60	29.3	35	1 HP - BD	1812 @ 0.5	555
PHPX057-436	5	57,000	43,300	55,000	460-3-60	13.2	20	1 HP - BD	1812 @ 0.5	555
PHPX076-236	6	76,000	56,400	69,000	230/208-3-60	32.8	35	2.4 BHP - BD	2400 @ 0.8	730
PHPX076-436	6	76,000	56,400	69,000	460-3-60	15.2	20	2.4 BHP - BD	2400 @ 0.8	730
PHPX091-236	7.5	91,300	67,500	87,500	230/208-3-60	38.2	40	2.9 BHP - BD	3000 @ 0.8	1020
PHPX091-436	7.5	91,300	67,500	87,500	460-3-60	19.2	20	2.9 BHP - BD	3000 @ 0.8	1020
PHPX119-236	10	119,400	89,800	110,800	230/208-3-60	56.8	60	3.7 BHP - BD	4000 @ 1.2	1150
PHPX119-436	10	119,400	89,800	110,800	460-3-60	28.7	30	3.7 BHP - BD	4000 @ 1.2	1150
PHPX146-236	12	146,000	110,000	138,000	230/208-3-60	65.0	100	3.7 BHP - BD	5000 @ 0.6	1765
PHPX146-436	12	146,000	110,000	138,000	460-3-60	32	50	3.7 BHP - BD	5000 @ 0.6	1765
PHPX181-236	15	180,800	136,400	177,600	230/208-3-60	84.0	110	5 HP - BD	6000 @ 0.6	2075
PHPX181-436	15	180,800	136,400	177,600	460-3-60	42.0	50	5 HP - BD	6000 @ 0.6	2075
PHPX241-236	20	241,000	174,300	234,000	230/208-3-60	107.4	125	5 HP - BD	8000 @ 0.8	4588
PHPX241-436	20	241,000	174,300	234,000	460-3-60	53.1	70	5 HP - BD	8000 @ 0.8	4588

(1) Rated at 95°F ambient with 80°DB / 67° WB return air temperature.
(2) Heat pump is rated at 47°F ambient and 70°DB return air temperature.
(3) MCA: Minimum Circuit Ampacity.
(4) MFS: Recommended Time Delay Fuse or HACR Type Circuit Breaker.
(5) (B)HP = (Brake) Horsepower
DD = Direct Drive
BD = Belt Drive (higher external static is available with oversized motor).

Note 1: Supply and return air discharge is convertible (horizontal or vertical) in sizes 2 to 10 ton.
Note 2: Sizes 2 through 6 ton are single compressor. 7.5 and 10 ton are dual compressor. 12 ton has one semi-hermetic compressor. 15 and 20 ton have two semi-hermetic compressors.
Specifications are subject to change without notice.
6-1-07

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P. O. Box 218309 • Houston, Texas 77218 USA
Phone (713) 464-8587 • Fax (713) 468-8810
www.marcclimatic.com • E-mail: sales@marcclimatic.com