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AirPAK 120 Series

Industrial duty wall-mounted HVAC with numerous options

10 ton :: 35.2 kW

Features and Benefits

Built for critical applications

- Two-stages of cooling allows for more precise cooling as well as a 50% refrigeration backup in the event of a leak or component failure
- All-in-one design to allow a single point of connection
- 16-gauge cabinet construction for use in rugged, industrial applications
- Design allows improved maintenance and spare parts availability
- Form-C dry contacts for alarm outputs allow remote monitoring
- TEFC-rated backwardly inclined impeller evaporator fans, and axial impeller condenser fans
- Hermetically sealed scroll compressors
- UL 508A Listed electrical panels for safety
- Fully CSA certified to UL 1995 standards
- Industry standard voltage configurations, including: 480V 3ph 60Hz; 575V 3ph 60Hz; 380V 3ph 50Hz

Options and Accessories

- Electric heat from 10 kW – 20kW
- Corrosion resistant coil coatings
- Corrosion resistant condenser section
- Low ambient controls, down to -70°F (-55°C)
- Multiple unit control

Engineered to withstand the demanding environmental conditions of your industry

AirPAK wall-mounted air conditioning units are specifically designed for use in non-hazardous (classified) commercial/industrial applications and are available in capacities from 5 to 20 tons. While similar in configuration to other wall-mount units, the Specific Systems AirPAK line was designed for demanding use in heavy-duty commercial/industrial applications such as telecommunications, instrumentation, control, and electrical powerhouse assemblies. AirPAKs feature standard dual refrigeration circuits, hot-gas bypass and heavy duty industrial cabinetry — which are options or heavy modifications on competitive units.

Modular design throughout the AirPAK line allows easy production modifications of the basic unit to include additional special features such as stainless steel or aluminum cabinetry, a low ambient package, or special options designed for use in highly corrosive atmospheres.

The AirPAK's to-the-wall design allows for minimal intrusion with regards to interior wall space. Only two small holes need to be cut through the mounting wall. The sleeves are then inserted and the return and supply air grills mounted onto the sleeves.

Starting with our time-proven industrial DX air conditioning system, you can include many options, including those listed at left. This all-in-one design allows quicker and more efficient integration into your structure. Form-C dry contacts for alarm outputs are standard, with full remote controls available through an optional BacNet or LonWorks compatible PLC.

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AirPak 120 Series

- Electrical Data
- Capacity Data
- Preliminary Dimensions

Total Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.

75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
142600	135900	129200	118100	110400
41.8 kW	39.8 kW	37.8 kW	34.6 kW	32.4 kW

Sensible Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.

98500	95900	93100	89000	85800
28.8 kW	28.1 kW	27.3 kW	26.1 kW	25.1 kW

Total Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.

130200	94800	90000	82700	77900
29.2 kW	17.8 kW	26.4 kW	24.2 kW	22.8 kW

Sensible Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.

92900	90400	87700	82700	77900
27.2 kW	26.5 kW	25.7 kW	24.2 kW	22.8 kW

CFM @ 0.50" S.P.		Nominal Capacity	
60Hz	50Hz	60 Hz	50 Hz
3600	3000	120000	100000

- Dimensions shown are representative of our standard AirPak to-the-wall HVAC system
- All dimensions should be considered preliminary, and this should not be used as a final construction document
- Clearances are provided as standard for maintenance. Any required clearances should be confirmed with local regulations or statutes for electrical systems
- Electrical and capacity data provided in this document is accurate at the time of publishing, but Specific Systems reserves the right to modifiy components in future systems, thereby negating the accuracy of these numbers.
- Please verify all data with your sales representative and subsequent project engineer

Electric Power		230/240V 1Φ–60Hz	460/480 3Φ–60Hz	230/240 3Φ–60Hz	415V 3Φ–50Hz	380V 3Φ-50Hz	200V 3Φ–50Hz	575V 3Φ–60Hz
Evaporator Fan Motor FLA		3.5 (7.0)	1.67 (3.34)	2.6 (5.2)	1.6 (3.2)	1.6 (3.2)	2.9 (5.8)	1.16 (2.32)
Condensor Motor FLA		12.1	4.0	6.7	3.5	3.5	8.9	3.2
Compressor Motor RLA		30.8	9.7	19.0	9.7	9.7	19.0	7.4
Heat 20KW, Amps (Actual KW)		—	26.0 (21.6)	53.22 (21.2)	28.0 (19.4)	28.0 (19.4)	49.66 (17.2)	21.6 (21.6)
Heat 15KW, Amps (Actual KW)		—	18.52 (15.4)	37.6 (15.0)	23.8 (16.5)	23.8 (16.5)	42.4 (14.7)	15.46 (15.4)
Heat 10KW, Amps (Actual KW)		46.1 (10.0)	13.0 (10.8)	26.6 (10.6)	14.0 (9.7)	14.0 (9.7)	24.8 (8.6)	10.8 (10.8)
Total Cooling FLA		47.9	28.2	51.4	27.6	27.6	54.2	21.8
20 KW Heat	MCA	—	38.5	74.9	44.1	44.1	71.2	31.9
	MOP	—	40.0	80.0	45.0	45.0	80.0	35.0
15 KW Heat	MCA	—	30.7	56.2	35.6	35.6	62.2	24.1
	MOP	—	40.0	70.0	40.0	40.0	70.0	30.0
10 KW Heat	MCA	62.6	30.7	56.2	30.0	30.0	59.0	23.7
	MOP	100.0	40.0	700	35.0	35.0	70.0	30.0
Operating Range		216V–253V	432V–506V	216V–253V	373V–456V	342V–418V	180V–220V	517V–600V