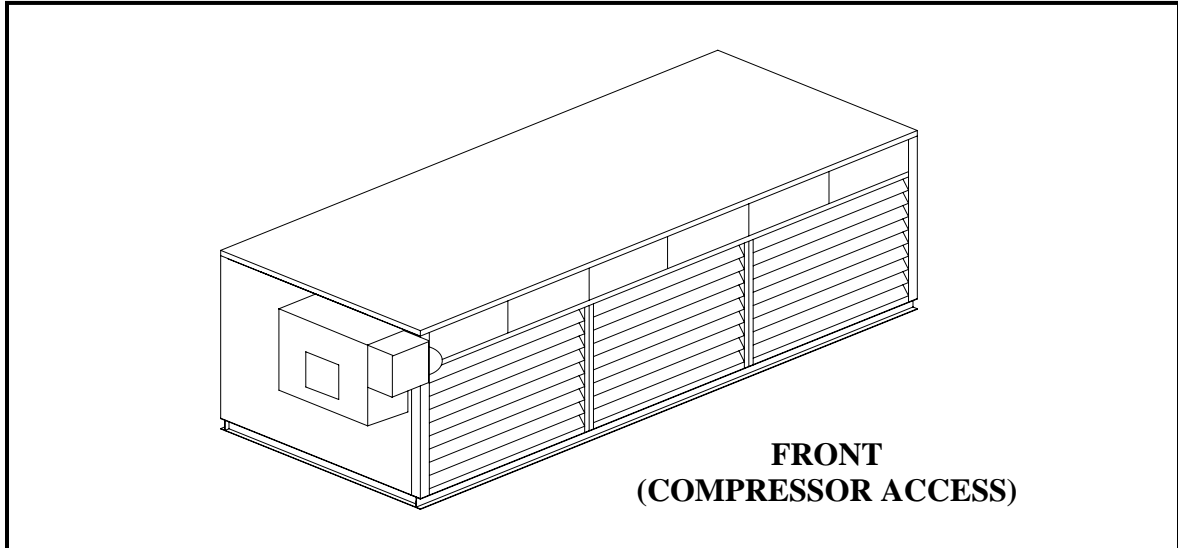


COOLTEC

"ECONO-PAK" MULTI-COMPRESSOR RACK WITH AIR COOLED CONDENSING UNITS



TYPICAL APPLICATIONS: Auditoriums, Bars, Bakeries, Schools, Supermarkets, Warehouses, Liquor Stores, Restaurants, Hotels, and Prisons.

CAPACITY RANGE: Custom designed refrigeration system. Available in 4' to 16' lengths for multi-unit application. Single and Double Tier arrangements.

FEATURE:

Ideal for All Weather Area– The condensing units are installed in weather protected housings. This provides an economical refrigeration system for all weather areas.

Centralized Controls– The pre-engineered control panel with main-fused disconnect is mounted on the unit with all controls pre-wired. This reduces the installation and maintenance cost.

Accessibility– The louvered panel can be easily removed from service. All controls and accessories are easily accessible.

Rigid Construction– The all welded frame is constructed of heavy duty structural steel and coated with two coats of baked enamel, epoxy backed paint.

Reduced Field Labor– The unit is shipped to the job site with all components mounted and ready for final hook-up. This reduces field installation time and eliminates lost time due to missing parts.

COOLTEC REFRIGERATION CORP.

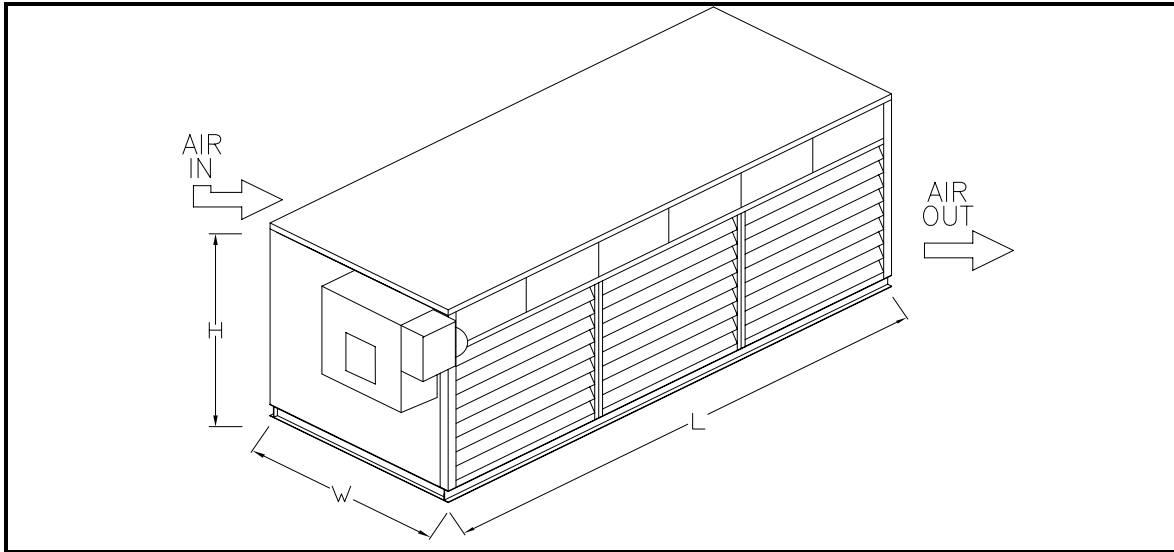
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GENERAL SPECIFICATIONS



COOLTEC MODEL NO.	DIMENSION (IN)		
	L	W	H
EP-4	46	35	43
EP-6	72	45	43
EP-8	96	45	43
EP-12	144	45	43
EP-16	192	45	43

NOTES:

1. INSTALLATION CLEARANCE - 3 FEET
2. REFRIGERATION LINES STUBBED IN THE BACK OF RACK

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"ECONO-PAK" MULTI-COMPRESSOR RACK WITH AIR COOLED CONDENSING UNITS

HERMETIC UNITS

CONDENSING UNIT CAPACITY						COIL CAPACITY						LINE SIZE 100 FT.		TOTAL SYSTEM AMPS.		NET WT. LBS		
H.P.	MODEL NO.	CAPACITY MBH @ 95F AMB	POWER AMPS, VOLTS, PH, 60HZ.		DIMENSIONS (INCHES)			COIL QTY	COIL NO.	RATING 1-PH., 60 HZ			SUC O.D	LIQ O.D	208 V 1PH		208 V 3PH	
			208 V 1PH	208 V 3PH	L	W	H			FAN MOTOR		DEF HTR						
										RLA	VOLTS							RLA 208V 1PH
MEDIUM TEMPERATURE																		R-404A
1/2	THM5E1-R4	5.99	5.7	-----	17	14	12	1	ADT052	1.8	120	-----	1/2	1/4	5.7	-----	100	
3/4	THM8E1-R4	7.02	6.1	-----	24	17	14	1	ADT070	3.6	120	-----	5/8	3/8	6.1	-----	150	
1.0	THM10E1-R4	8.91	7.7	-----	24	17	14	1	ADT070	3.6	120	-----	7/8	3/8	7.7	-----	160	
1.5	THM15E1-R4	12.5	-----	8.6	24	19	17	1	ADT120	3.6	120	-----	7/8	3/8	-----	8.6	180	
2.0	THM20E1-R4	17.3	-----	8.6	26	35	20	1	ADT156	5.4	120	-----	7/8	1/2	-----	9.6	230	
2.0	THM20E2-R4	17.3	-----	8.6	26	35	20	2	ADT070	7.2	120	-----	7/8	1/2	-----	9.6	235	
3.0	THM30E1-R4	25.4	-----	12.6	26	35	20	1	ADT208	7.2	120	-----	1 1/8	1/2	-----	12.6	300	
3.0	THM30E2-R4	25.4	-----	12.6	26	35	20	2	ADT108	7.2	120	-----	1 1/8	1/2	-----	12.6	320	
4.0	THM40E1-R4	41.38	-----	19.6	29	45	27	1	ADT370	10.8	120	-----	1 1/8	5/8	-----	19.6	350	
4.0	THM40E2-R4	41.38	-----	19.6	29	45	27	2	ADT208	14.4	120	-----	1 1/8	5/8	-----	19.6	370	
5.0	THM50E1-R4	46.0	-----	24.7	29	45	27	1	BMA450	24.0	120	-----	1 1/8	5/8	-----	24.7	370	
5.0	THM50E2-R4	46.0	-----	24.7	29	45	27	2	ADT208	28.8	120	-----	1 1/8	5/8	-----	24.7	400	
LOW TEMPERATURE																		R-404A
1/2	THL5E1-R4	1.70	8.1	-----	18	15	12	1	TL21	0.5	208	4.8	5/8	1/4	9.6	-----	100	
3/4	THL8E1-R4	3.07	10.8	-----	18	15	12	1	LET035	1.0	208	3.9	5/8	3/8	12.8	-----	150	
1.0	THL10E1-R4	3.38	-----	9.9	24	17	14	1	LET035	1.0	208	3.9	7/8	3/8	-----	10.9	160	
1.5	THL15E1-R4	5.38	-----	14.3	24	19	17	1	LET047	1.0	208	3.9	7/8	3/8	-----	15.3	230	
2.0	THL20E1-R4	6.61	-----	17.2	24	19	17	1	LET065	2.0	208	3.9	7/8	3/8	-----	19.2	250	
2.5	THL25E1-R4	9.20	-----	18.0	24	19	17	1	LET090	2.0	208	7.8	1 1/8	3/8	-----	20.0	300	
3.5	THL35E1-R4	15.45	-----	22.4	33	44	22	1	LET140	3.0	208	11.7	1 1/8	3/8	-----	25.4	400	
3.5	THL35E2-R4	15.45	-----	22.4	33	44	22	2	LET065	4.0	208	15.6	1 1/8	3/8	-----	26.4	420	
4.0	THL40E1-R4	18.95	-----	30.4	33	44	22	1	LET160	4.0	208	15.7	1 1/8	3/8	-----	34.4	430	
4.0	THL40E2-R4	18.95	-----	30.4	33	44	22	2	LET090	4.0	208	15.6	1 1/8	3/8	-----	34.4	450	
5.0	THL50E1-R4	22.50	-----	40.3	33	44	22	1	LET200	5.0	208	19.6	1 3/8	1/2	-----	45.3	450	
5.0	THL50E2-R4	22.50	-----	40.3	33	44	22	2	LET090	4.0	208	15.6	1 3/8	1/2	-----	44.3	470	

NOTES:

- Condensing units capabilities are 95°F ambient. Cooler temp. is at 35° with 25° suction gas temp. Freezer temp is at -10° with 20° suction gas temp.
- Unit cooler and condensing units will have a separate power supplies for walk-in cooler applications and a single power supply for walk-in freezer applications. The unit coolers is electrically connected to the condensing unit with a 4-wire color-coded defrost harness.
- 1 MBH = 1000 BTU's/HOUR

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COOLTEC

"ECONO-PAK" MULTI-COMPRESSOR RACK WITH AIR COOLED CONDENSING UNITS

SCROLL UNITS

CONDENSING UNIT CAPACITY							COIL CAPACITY					LINE SIZE 100 FT.		TOTAL SYSTEM AMPS.		NET WT. LBS	
H.P.	MODEL NO.	CAPACITY MBH @ 100F AMB	POWER AMPS, VOLTS, PH, 60HZ.		DIMENSIONS (INCHES)			COIL QTY	COIL NO.	RATING 1-PH., 60 HZ		SUC O.D	LIQ O.D	208 V 1PH	208 V 3PH		
			208 V 1PH	208 V 3PH	L	W	H			FAN MOTOR							DEF HTR · RLA 208V 1PH
										RLA	VOLTS						
MEDIUM TEMPERATURE										R-404A							
1.5	TZM15E1-R4	11.7	13.9	----	24	18.3	16.3	1	ADT104	4.2	120	----	7/8	3/8	13.9	----	116
2.0	TZM20E1-R4	16.6	----	13.4	25.2	34	19	1	ADT156	6.3	120	----	7/8	3/8	----	13.4	220
2.5	TZM25E1-R4	21.3	----	15.3	25.2	34	19	1	ADT208	8.4	120	----	1 1/8	1/2	----	15.3	220
3.0	TZM30E1-R4	24.6	----	17.9	25.2	34	19	1	ADT208	8.4	120	----	1 1/8	1/2	----	17.9	235
3.5	TZM35E1-R4	27.8	----	20.2	25.2	34	19	1	ADT260	10.5	120	----	1 1/8	1/2	----	20.2	235
4.0	TZM40E1-R4	35.1	----	23.2	28.2	44	26.8	2	ADT156	12.6	120	----	1 1/8	1/2	----	23.2	337
5.0	TZM50E1-R4	42.2	----	31.2	28.2	44	26.8	2	ADT208	16.8	120	----	1 1/8	1/2	----	31.2	339
6.0	TZM60E1-R4	48.7	----	31.7	28.2	44	26.8	2	ADT208	16.8	120	----	1 1/8	5/8	----	31.2	342
7.0	TZM70E1-R4	56.8	----	44.8	28.5	44	36.8	2	ADT260	21.0	120	----	1 3/8	5/8	----	44.8	495
8.0	TZM80E1-R4	61.6	----	49.1	28.5	44	36.8	2	ADT260	21.0	120	----	1 5/8	5/8	----	49.1	497
9.0	TZM90E1-R4	69.8	----	51.0	28.5	44	36.8	2	ADT312	25.2	120	----	1 5/8	5/8	----	51.0	498
10.0	TZM100E1-R4	78.6	----	60.8	28.5	44	36.8	2	ADT370	25.2	120	----	1 5/8	5/8	----	60.8	528
LOW TEMPERATURE										R-404A							
1.5	TZL15E1-R4	7.34	----	13.9	25.2	34.3	19	1	LET065	2.0	208	7.8	7/8	3/8	----	15.9	220
2.0	TZL20E1-R4	9.09	----	14.4	25.2	34.3	19	1	LET090	2.0	208	7.8	1 1/8	3/8	----	16.4	222
2.2	TZL22E1-R4	9.86	----	16.2	25.2	34.3	19	1	LET090	2.0	208	7.8	1 1/8	3/8	----	18.2	222
2.5	TZL25E1-R4	12.70	----	19.8	25.2	34.3	19	1	LET120	3.0	208	11.7	1 1/8	3/8	----	22.8	235
3.0	TZL30E1-R4	14.10	----	21.6	25.2	34.3	19	1	LET140	3.0	208	11.7	1 1/8	3/8	----	24.6	254
4.0	TZL40E1-R4	18.00	----	30.4	28.2	44.1	26.8	1	LET160	4.0	208	15.7	1 1/8	1/2	----	34.4	339
5.0	TZL50E1-R4	21.60	----	33.5	28.2	44.1	26.8	1	LET200	5.0	208	19.6	1 3/8	1/2	----	38.5	342
6.0	TZL60E1-R4	25.70	----	41.1	28.2	44.1	26.8	1	LET240	6.0	208	23.5	1 3/8	1/2	----	47.1	476

NOTES:

1. Condensing units capabilities are 95°F ambient. Cooler temp. is at 35° with 25° suction gas temp. Freezer temp is at -10° with 20° suction gas temp.

2. Unit cooler and condensing units will have a separate power supplies for walk-in cooler applications and a single power supply for walk-in freezer applications. The unit coolers is electrically connected to the condensing unit with a 4-wire color-coded defrost harness.

3. 1 MBH = 1000 BTU's/HOUR

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COOLTEC

"ECONO-PAK" MULTI-COMPRESSOR RACK WITH AIR COOLED CONDENSING UNITS

ITEM NO. _____ REMOTE REFRIGERATION PACKAGE

The refrigeration package shall be a pre-engineered and factory assembled unit, trade name "ECONO-PAK", as manufactured by **COOLTEC REFRIGERATION CORP.** 1280 E. Ninth Street, Pomona, CA 91766 Phone: (909) 865-2229 Fax: (909) 868-0777 E-mail: Sales@cooltecrefrigeration.com

Contractor shall furnish and install, where shown on plans, Cooltec U.L. approved "ECONO-PAK" Air cooled Remote Refrigeration Package, Model _____, with Control panel, _____ Volts, _____ Phase, _____ Hz.

1. CONSTRUCTION

The package shall be a totally weatherproofed unit with removable louvers on both sides. The frame shall be made of structural steel. The enclosure and the panels shall be made of sheet steel. With a fully powder-coated unit, the entire structure is to be protected against rust and corrosion.

2. REFRIGERATION SYSTEMS

- A. Single stage compressors with air-cooled condensers, operating within the recommended range of suction and discharge pressure of economical operation and with required capacity, are to be furnished and installed inside the package in accordance with the refrigeration schedule.
- B. All compressor units shall be new factory assembled to operate with the refrigerant specified in the engineering summary sheet. Refrigerant R-404A shall be used on all commercial and low temperature units.
- C. All units shall be equipped with high-low pressure control switches having adjustable range and differential. The high pressure cut-out shall be of automatic reset type.
- D. All units shall be equipped with head pressure controls and crankcase heaters for low ambient conditions. All piping is to be pressure tested with nitrogen at 300 PSI. After the condensing unit and coil has been connected, the balance of the system shall be leak tested with all valves open.

3. CONTROL PANEL

- A. The package shall contain a factory mounted and pre-wired control panel, complete with wire harness, wiring for control, defrost clocks and refrigerant fixtures; all in accordance with the wiring diagram and local codes.
- B. Electrical contractor shall provide and install main power lines to panel, and provide wire harness wiring for control and defrost heater between the defrost clock and the refrigerant fixture; all in accordance with wiring diagram and local codes.

4. Safety Caution

Each system and evaporator is shipped under nitrogen pressure. Use caution and exercise safety at all times when preparing for final hook-up.

5. Evaporator Coil

Evaporator coils shall be direct expansion type fabrication of copper tubes with aluminum fins. All evaporator coils shall be provided with solenoid valves, thermostatic expansion valves and thermostats. Then, piped and wired to the junction box for positive pump down.

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CONSTRUCTION NOTES FOR TRADE

1. GENERAL CONTRACTORS

- A. Contractors shall verify all dimensions and coordinate with other trades.
- B. General contractors shall prepare and weather-proof the platform and curbed openings.

2. REFRIGERATION CONTRACTOR

- A. All copper tubing to be refrigerant grade A.C.R. or TYPE "L".
- B. Silver solder and/or sil-fos shall be used on all refrigerant piping. Soft solder is NOT acceptable.
- C. All piping to be pressure tested with nitrogen at 300 PSI. After the condensing unit and coil have been connected, the balance of the system shall be leak tested with all valves open.
- D. The complete system shall be evacuated with a vacuum pump.
- E. Charge, test, and adjust each unit.
- F. Refrigerant contractor to provide and install drain-line. Heater in freezer to be connected by electrical contractor.
- G. Refrigerant suction lines outside of refrigerated compartments, which are not run in conduit, shall be insulated back to compressor with Armstrong Arma-Flex AP- 25/50 foam plastic insulation or equal in accordance with direction of the manufacturer. Minimum thickness shall be 1/2 inch for commercial temperature and 3/4 inch for low temperature.

3. ELECTRIC CONTRACTOR

- A. Electrical contractor shall provide power for refrigerant package, and connect control and defrost system as called for in the wiring diagram.
- B. Electrical contractor to provide 4-wire color coded service from the time-clock at the refrigeration package to blower coil in fixture for automatic defrost.
- C. Electrical contractor to connect drain-line heater in freezer.
- D. All electrical wiring and installation shall be in accordance with the wiring diagram and local codes.

4. PLUMBING CONTRACTOR

- A. Plumbing contractor to provide type "M" copper drain or walk-in refrigerator and freezer, pitched 1/4" per foot of run. In freezer, unheated drain line must be outside of insulation to prevent freezing. Trap drain line outside of refrigerated space to avoid entrance of warm and moist air.
- B. Plumbing contractor to provide individual drain line for each evaporator, unless otherwise called for.
- C. All plumbing installation shall be in accordance with local code.

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