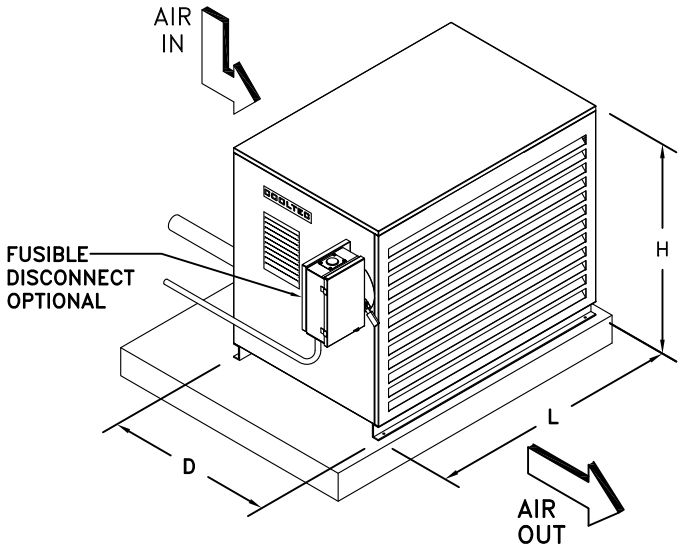
COOLTEC

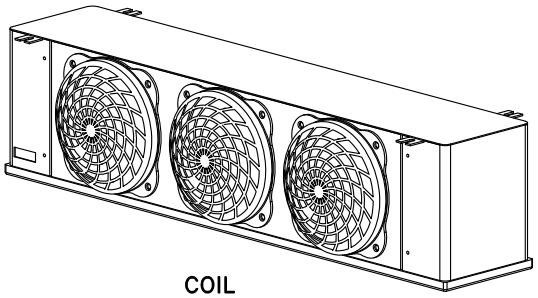
ITEM:_____

QTY:_____

"POWER-PAK"

AIR COOLED CONDENSING UNITS FOR OUTDOOR APPLICATIONS





MODEL	OUTDOOR ENCLOSURE DIMENSIONS (INCHES)			PLATFORM	
	L	D	H	L	D
PP-1	28.0	30.0	33.0	42.0	44.0
PP-2	42.0	30.0	33.0	56.0	44.0
PP-3	54.0	36.0	45.0	68.0	50.0

c UL US LISTED
CONDENSING UNIT
33SZ FILE SA32027

FOR MEDIUM & LOW TEMPERATURE APPLICATIONS

TYPICAL APPLICATIONS:

Restaurants, Schools, Cafeterias, Reach-In Units, Display Cases, Grab-N-Go Cases, Under-Counter Refrigerators and Freezers, Walk-In Coolers and Freezers, Cold Pans, and various types of related equipment for food service operations.

CAPACITY RANGE:

1/2 to 10 HP Units, Medium and Low Temperature Applications for Hermetic or Scroll Compressors.

FEATURES:

Low Profile Design *Available in Hermetic or Scroll Compressors *Economical to Install *With Weather Protected Enclosure *Available in 208 Volts, Single Phase, 60 Hertz and in 208-230 Volts, Three Phase, 60 Hertz Electrical Service. The Power-pak is the most affordable single condensing unit from Cooltec's product line.

FACTORY INSTALLED ACCESSORIES:

Outdoor Units Includes:

Condensing unit with pre-assembled liquid line drier and sight glass, suction line vibration eliminator for semi-hermetic units, pressure control, contactor for 3-phase units, 24 hour timer for medium temp units (for cooler defrost application) and defrost timer for freezer's electric defrost applications. Weather housing with removable front louvered panel, removable top cover, crankcase heater and flood back head pressure control. Optional: Fusible Disconnect.

Unit Cooler Includes:

Wall mount coils, each with thermostat, solenoid valve, and expansion (TX) valve, mounted and wired for one point electrical connection. Optional: ceiling mount coil.

COOLTEC REFRIGERATION CORP.

1250 E. FRANKLIN AVE. UNIT B, POMONA, CA 91766 ❄ T: 909-865-2229 ❄ F: 909-868-0777

sales@cooltecrefrigeration.com ❄ www.cooltecrefrigeration.com

COOLTEC

OUTDOOR PLATFORM MOUNT

POWER-PAK
AIR COOLED
HERMETIC / SCROLL UNITS
OUTDOOR PLATFORM MOUNT
CONDENSING UNIT & COIL CAPACITY

MEDIUM TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN COOLER

CONDENSING UNIT CAPACITY									COIL CAPACITY					TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		OUTDOOR ENCLOSURE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ FAN MOTOR RLA	FAN MOTOR VOLTS	DEFROST HTR.RLA 208V/1PH	LINE SIZE (100' MAX.) SUCTION OD	LINE SIZE (100' MAX.) LIQUID OD	TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz 208V 1PH	TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz 208V 3PH	SHIP WT LBS.
		+20°F	+25°F	208-230/1	208-230/3	L	D	H										
0.5	RHM05-2S	5.77	6.32	7.65	----	28.0	30.0	33.0	1	ADT-052	0.9	115	----	5/8	3/8	7.65	----	187
0.75	RHM08-2S	7.41	8.1	9.0	----	28.0	30.0	33.0	1	ADT-070	1.8	115	----	7/8	3/8	9.0	----	199
1.0	RHM10-2S	9.10	9.97	9.3	----	28.0	30.0	33.0	1	ADT-090	1.8	115	----	7/8	3/8	9.3	----	207
1.5	RZM15-2T	9.78	10.75	----	8.0	28.0	30.0	33.0	1	ADT-104	1.8	115	----	7/8	3/8	----	8.0	210
1.75	RZM17-2T	11.2	12.25	----	10.4	28.0	30.0	33.0	1	ADT-120	1.8	115	----	7/8	3/8	----	10.4	210
2.0	RZM20-2T	13.1	14.35	----	10.9	42.0	30.0	33.0	1	ADT-130	1.8	115	----	7/8	3/8	----	10.9	375
2.25	RZM22-2T	16.2	17.75	----	10.6	42.0	30.0	33.0	1	ADT-156	2.7	115	----	7/8	1/2	----	10.6	345
3.0	RZM30-2T	18.4	20.2	----	13.7	42.0	30.0	33.0	1	ADT-208	3.6	115	----	7/8	1/2	----	13.7	345
3.25	RZM32-2T	25.0	27.3	----	15.2	42.0	30.0	33.0	1	ADT-260	4.5	115	----	1-1/8	1/2	----	15.2	345
4.0	RZM40-2T	30.6	33.7	----	18.5	54.0	36.0	45.0	1	ADT-312	5.4	115	----	1-1/8	1/2	----	18.5	605
4.25	RZM42-2T	35.1	38.55	----	25.3	54.0	36.0	45.0	1	ADT-370	5.4	115	----	1-1/8	1/2	----	25.3	605
5.0	RZM50-2T	38.0	41.3	----	24.4	54.0	36.0	45.0	2	ADT-180	5.4	115	----	1-3/8	1/2	----	24.4	567
6.0	RZM60-2T	46.1	50.15	----	25.5	54.0	36.0	45.0	2	ADT-208	7.2	115	----	1-3/8	5/8	----	25.5	542
7.0	RZM70-2T	54.5	59.6	----	37.0	54.0	36.0	45.0	2	ADT-260	9.0	115	----	1-3/8	5/8	----	37.0	703
8.0	RZM80-2T	59.75	65.1	----	40.5	54.0	36.0	45.0	2	ADT-312	10.8	115	----	1-3/8	5/8	----	40.5	700
9.0	RZM90-2T	67.15	72.75	----	42.0	54.0	36.0	45.0	2	ADT-370	10.8	115	----	1-5/8	5/8	----	42.0	713
10.0	RZM100-2T	76.55	82.7	----	49.8	54.0	36.0	45.0	2	BMA-365	16.8	115	----	1-5/8	5/8	----	49.8	726

NOTES: 1. Condensing unit capabilities are 95°F ambient. Cooler temp is at 35°F with 25°F suction gas temp.
2. Unit cooler and condensing units will have separate power supplies for walk-in cooler applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

LOW TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN FREEZER

CONDENSING UNIT CAPACITY									COIL CAPACITY					TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		OUTDOOR ENCLOSURE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ FAN MOTOR RLA	FAN MOTOR VOLTS	DEFROST HTR.RLA 208V/1PH	LINE SIZE (100' MAX.) SUCTION OD	LINE SIZE (100' MAX.) LIQUID OD	TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz 208V 1PH	TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz 208V 3PH	SHIP WT LBS.
		-10°F	-20°F	208-230/1	208-230/3	L	D	H										
0.5	RHL05-2S	2.89	2.09	7.65	----	28.0	30.0	33.0	1	TL-21	0.5	208	4.8	5/8	3/8	8.15	----	187
0.75	RHL08-2S	3.87	2.98	9.0	----	28.0	30.0	33.0	1	TL-21	0.5	208	4.8	5/8	3/8	9.5	----	199
1.0	RHL10-2S	4.73	3.57	9.3	----	28.0	30.0	33.0	1	LET-035	0.5	208	3.9	7/8	3/8	9.8	----	207
1.5	RZL15-2T	5.38	4.31	----	8.0	28.0	30.0	33.0	1	LET-040	0.5	208	3.9	7/8	3/8	----	8.5	210
1.75	RZL17-2T	6.24	5.01	----	10.4	28.0	30.0	33.0	1	LET-047	0.5	208	3.9	7/8	3/8	----	10.9	210
2.0	RZL20-2T	7.27	5.84	----	10.9	42.0	30.0	33.0	1	LET-047	0.5	208	3.9	7/8	3/8	----	11.4	375
2.25	RZL22-2T	8.91	7.14	----	10.6	42.0	30.0	33.0	1	LET-065	1.0	208	7.8	7/8	3/8	----	11.6	345
3.0	RZL30-2T	10.03	8.04	----	13.7	42.0	30.0	33.0	1	LET-075	1.0	208	7.8	7/8	3/8	----	14.7	345
3.25	RZL32-2T	13.1	10.5	----	15.2	42.0	30.0	33.0	1	LET-090	1.0	208	7.8	7/8	3/8	----	16.2	345
4.0	RZL40-2T	16.4	13.05	----	18.5	54.0	36.0	45.0	1	LET-120	1.5	208	11.7	1-1/8	3/8	----	20.0	605
4.25	RZL42-2T	19.1	15.25	----	25.3	54.0	36.0	45.0	1	LET-140	1.5	208	11.7	1-1/8	3/8	----	26.8	605
5.0	RZL50-2T	21.8	17.65	----	24.4	54.0	36.0	45.0	1	LET-160	2.0	208	15.7	1-1/8	1/2	----	26.4	567

NOTES: 1. Condensing unit capabilities are 95°F ambient. Freezer is at -10°F with -20°F suction gas temp.
2. Unit cooler and condensing units will have SAME power supplies for walk-in freezer (low temp.) applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

COOLTEC REFRIGERATION CORP.

1250 E. FRANKLIN AVE. UNIT B, POMONA, CA 91766 ❄ T: 909-865-2229 ❄ F: 909-868-0777

sales@cooltecrefrigeration.com ❄ www.cooltecrefrigeration.com

COOLTEC

"POWER-PAK"
AIR COOLED CONDENSING UNIT
FOR OUTDOOR LOCATION

OUTDOOR AIR COOLED REFRIGERATION PACKAGE
The refrigeration package shall be pre-engineered and factory assembled unit, trade name **"POWER-PAK"**, as manufactured by **COOLTEC REFRIGERATION CORP.** 1250 E. Franklin Ave. Unit B, Pomona, CA 91766 Phone: (909) 865-2229 F: (909) 868-0777 E-mail: sales@cooltec-online.com

Contractor shall furnish and install, where shown on plans, the following **COOLTEC** U.L. approved **"POWER-PAK"** air cooled pre-assemble remote system with evaporator coil. All units shall be electrically tested and shipped ready for field installation. The Units shall be suitable for operation as specified below.

ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.

1. REMOTE MOUNT OUTDOOR UNIT

A. The package shall be totally weatherproofed for outdoor use. Each enclosure shall consist of a cabinet base. The cabinet base shall be constructed of galvanized steel. The galvanized steel shall not be less than 0.50 thickness. Entire cabinet base shall be pre-assembled, welded, cleaned and primed and powder coated epoxy enamel and baked. The cabinet shall have removable front to allow for easy access for serving the condensing unit. The housing front shall be louvered and allow for an unrestricted flow of air through the cabinet.

B. Air cooled condensing unit shall have hermetic/scroll compressor with suction and discharge service valves and oil sight glass and oil charging connection. Compressor motor shall be high torque, hermetic induction type, 1750 rpm and shall be protected against overload, single phase, and locked rotor condition. The unit shall be provided with 20 F.T.D. air cooled condensing coil with Staggered tube design for greater thermal efficiency. The coil shall be tested to 400 PSI and shall be self draining to assure efficient operation and oil return. The condenser fan motor shall be inherently protected and have life-lubricated ball bearings. A fan guard shall be provided with each motor. The unit shall be provided with a liquid receiver rated at 90% of its capacity. It shall be supplied with fusible plug and shall conform to U.L. Dual pressure control shall be included with the unit. Suction line for low-temperature units must be insulated with 1" armaflex.

C. Unit shall be pre-piped with drier, sight glass, and head pressure control. Pre-wired with compressor contactor, crankcase heater, dual pressure control and time clock (for low temperature units only).

2. EVAPORATOR COIL

A. Evaporator coil shall be direct expansion type fabricated of copper tubes with aluminum fins. All evaporator coil shall be provided with solenoid valve, thermostatic expansion valve and thermostat, piped and wired to junction box for positive pump down.

B. Evaporator coil shall be equipped with energy savings "ec" motors.

3. SAFETY CAUTION

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

COOLTEC

CONSTRUCTION NOTES FOR TRADES

1. GENERAL CONTRACTORS

- **A.** General contractors shall verify all dimensions and coordinate with other trades.
- **B.** General contractors shall prepare and weather proof the platform and curb 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 for 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 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, not run in conduit, shall be insulated back to compressor with Armstrong Arma-Flex AP – 25/50 foamed plastic insulation or equal in accord with direction of the manufacturer. Minimum thickness shall be 3/4 inch for commercial temperature and 1 inch for low temperature.

3. ELECTRICAL CONTRACTOR

- **A.** Electrical contractor provide power for refrigeration 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 lines for walk-in cooler and freezer, pitched 1/2" 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 codes.

REPRESENTED BY:

COOLTEC REFRIGERATION CORP.
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ITEM:_____

QTY:_____

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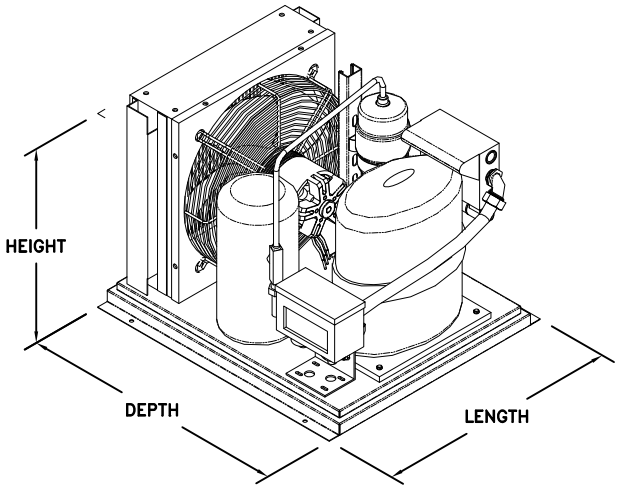
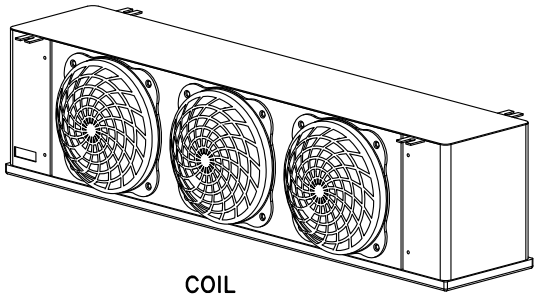
AIR COOLED CONDENSING UNITS FOR INDOOR APPLICATIONS





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CONDENSING UNIT
33SZ FILE SA32027

FOR MEDIUM & LOW TEMPERATURE APPLICATIONS

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CAPACITY RANGE:

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Condensing Unit Includes:

Condensing unit with pre-assembled liquid line drier and sight glass, suction line vibration eliminator for semi-hermetic units, pressure control, contactor for 3-phase units, 24 hour timer for medium temp units (for cooler defrost application) and defrost timer for freezer's electric defrost applications. Optional: Fusible Disconnect.

Unit Cooler Includes:

Wall mount coils, each with thermostat, solenoid valve, and expansion (TX) valve, mounted and wired for one point electrical connection. Optional: ceiling mount coil.

COOLTEC

TOP MOUNT INDOOR

POWER-PAK AIR COOLED HERMETIC / SCROLL UNITS TOP MOUNT INDOOR CONDENSING UNIT & COIL CAPACITY

MEDIUM TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN COOLER

CONDENSING UNIT CAPACITY									COIL CAPACITY					TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		MOUNTING BASE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ			LINE SIZE (100' MAX.)		TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz		SHIP WT LBS.
											FAN MOTOR		DEFROST	SUCTION OD	LIQUID OD			
		+20°F	+25°F	208-230/1	208-230/3	L	D	H			RLA	VOLTS	HTR.RLA 208V/1PH			208V 1PH	208V 3PH	
0.5	THM05-2S	5.77	6.32	7.65	----	24.0	24.0	16.0	1	ADT-052	0.9	115	----	5/8	3/8	7.65	----	105
0.75	THM08-2S	7.41	8.1	9.0	----	24.0	24.0	18.0	1	ADT-070	1.8	115	----	7/8	3/8	9.0	----	117
1.0	THM10-2S	9.10	9.97	9.3	----	24.0	24.0	18.0	1	ADT-090	1.8	115	----	7/8	3/8	9.3	----	125
1.5	TZM15-2T	9.78	10.75	----	8.0	26.0	26.0	18.0	1	ADT-104	1.8	115	----	7/8	3/8	----	8.0	130
1.75	TZM17-2T	11.2	12.25	----	10.4	26.0	26.0	18.0	1	ADT-120	1.8	115	----	7/8	3/8	----	10.4	130
2.0	TZM20-2T	13.1	14.35	----	10.9	38.0	28.0	21.0	1	ADT-130	1.8	115	----	7/8	3/8	----	10.9	280
2.25	TZM22-2T	16.2	17.75	----	10.6	38.0	28.0	21.0	1	ADT-156	2.7	115	----	7/8	1/2	----	10.6	250
3.0	TZM30-2T	18.4	20.2	----	13.7	38.0	28.0	21.0	1	ADT-208	3.6	115	----	7/8	1/2	----	13.7	250
3.25	TZM32-2T	25.0	27.3	----	15.2	38.0	28.0	21.0	1	ADT-260	4.5	115	----	1-1/8	1/2	----	15.2	250
4.0	TZM40-2T	30.6	33.7	----	18.5	48.0	32.0	29.0	1	ADT-312	5.4	115	----	1-1/8	1/2	----	18.5	442
4.25	TZM42-2T	35.1	38.55	----	25.3	48.0	32.0	29.0	1	ADT-370	5.4	115	----	1-1/8	1/2	----	25.3	442
5.0	TZM50-2T	38.0	41.3	----	24.4	48.0	32.0	29.0	2	ADT-180	5.4	115	----	1-3/8	1/2	----	24.4	404
6.0	TZM60-2T	46.1	50.15	----	25.5	48.0	32.0	29.0	2	ADT-208	7.2	115	----	1-3/8	5/8	----	25.5	379
7.0	TZM70-2T	54.5	59.6	----	37.0	48.0	32.0	39.0	2	ADT-260	9.0	115	----	1-3/8	5/8	----	37.0	540
8.0	TZM80-2T	59.75	65.1	----	40.5	48.0	32.0	39.0	2	ADT-312	10.8	115	----	1-3/8	5/8	----	40.5	537
9.0	TZM90-2T	67.15	72.75	----	42.0	48.0	32.0	39.0	2	ADT-370	10.8	115	----	1-5/8	5/8	----	42.0	550
10.0	TZM100-2T	76.55	82.7	----	49.8	48.0	32.0	39.0	2	BMA-365	16.8	115	----	1-5/8	5/8	----	49.8	563

NOTES: 1. Condensing unit capabilities are 95°F ambient. Cooler temp is at 35°F with 25°F suction gas temp.
2. Unit cooler and condensing units will have separate power supplies for walk-in cooler applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

LOW TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN FREEZER

CONDENSING UNIT CAPACITY									COIL CAPACITY					TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		MOUNTING BASE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ			LINE SIZE (100' MAX.)		TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz		SHIP WT LBS.
											FAN MOTOR		DEFROST	SUCTION OD	LIQUID OD			
		-10°F	-20°F	208-230/1	208-230/3	L	D	H			RLA	VOLTS	HTR.RLA 208V/1PH			208V 1PH	208V 3PH	
0.5	THL05-2S	2.89	2.09	7.65	----	24.0	24.0	16.0	1	TL-21	0.5	208	4.8	5/8	3/8	8.15	----	105
0.75	THL08-2S	3.87	2.98	9.0	----	24.0	24.0	18.0	1	TL-21	0.5	208	4.8	5/8	3/8	9.5	----	117
1.0	THL10-2S	4.73	3.57	9.3	----	24.0	24.0	18.0	1	LET-035	0.5	208	3.9	7/8	3/8	9.8	----	125
1.5	TZL15-2T	5.38	4.31	----	8.0	26.0	26.0	18.0	1	LET-040	0.5	208	3.9	7/8	3/8	----	8.5	130
1.75	TZL17-2T	6.24	5.01	----	10.4	26.0	26.0	18.0	1	LET-047	0.5	208	3.9	7/8	3/8	----	10.9	130
2.0	TZL20-2T	7.27	5.84	----	10.9	38.0	28.0	21.0	1	LET-047	0.5	208	3.9	7/8	3/8	----	11.4	280
2.25	TZL22-2T	8.91	7.14	----	10.6	38.0	28.0	21.0	1	LET-065	1.0	208	7.8	7/8	3/8	----	11.6	250
3.0	TZL30-2T	10.03	8.04	----	13.7	38.0	28.0	21.0	1	LET-075	1.0	208	7.8	7/8	3/8	----	14.7	250
3.25	TZL32-2T	13.1	10.5	----	15.2	38.0	28.0	21.0	1	LET-090	1.0	208	7.8	7/8	3/8	----	16.2	250
4.0	TZL40-2T	16.4	13.05	----	18.5	48.0	32.0	29.0	1	LET-120	1.5	208	11.7	1-1/8	3/8	----	20.0	442
4.25	TZL42-2T	19.1	15.25	----	25.3	48.0	32.0	29.0	1	LET-140	1.5	208	11.7	1-1/8	3/8	----	26.8	442
5.0	TZL50-2T	21.8	17.65	----	24.4	48.0	32.0	29.0	1	LET-160	2.0	208	15.7	1-1/8	1/2	----	26.4	404

NOTES: 1. Condensing unit capabilities are 95°F ambient. Freezer is at -10°F with -20°F suction gas temp.
2. Unit cooler and condensing units will have SAME power supplies for walk-in freezer (low temp.) applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

COOLTEC REFRIGERATION CORP.

1250 E. FRANKLIN AVE. UNIT B, POMONA, CA 91766 ❄ T: 909-865-2229 ❄ F: 909-868-0777

sales@cooltecrefrigeration.com ❄ www.cooltecrefrigeration.com

COOLTEC

"POWER-PAK"
AIR COOLED CONDENSING UNIT
FOR INDOOR LOCATION

INDOOR AIR COOLED REFRIGERATION PACKAGE
The refrigeration package shall be pre-engineered and factory assembled unit, trade name **"POWER-PAK",** as manufactured by **COOLTEC REFRIGERATION CORP.** 1250 E. Franklin Ave. Unit B, 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, the following **COOLTEC** UL approved **"POWER-PAK"** air cooled pre-assemble remote system with evaporator coil. All units shall be electrically tested and shipped ready for field installation. The units shall be suitable for operation as specified below:

ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.

1. CONSTRUCTION

The compressor mounting base shall be made of 14ga galvanized steel. The mounting base shall be pre-assemble, welded, cleaned and primed and powder coated epoxy enamel and baked. The condensing unit shall be installed with a minimum of 36" clear all around to allow for unrestricted flow of air through the condensing unit.

2. REFRIGERATION SYSTEMS

A. Single stage compressors with air-cooled condenser operating within the recommended range of suction and discharge pressures for economical operating and with required capacity, are to be furnished and installed in accordance with the refrigeration schedule.

B. All units shall be new factory assembled, to operate with the refrigerant specified. Refrigerant R404A is used for all medium temperature and low temperature applications.

C. Compressor shall be Copeland. The speed shall not exceed 1750 RPM. Compressor shall be equipped with suction and discharge service valves.

D. 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.

E. Each condensing unit shall include liquid line drier and sight glass, all assembled and piped.

3. REFRIGERATION PIPING

A. All refrigerant lines shall be extended to one side of the package.

B. Ends of lines shall be capped against contamination after the units are completed. These capped ends are to be only at final connection of the package to fixtures.

5. EVAPORATOR COIL

A. Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins. All evaporator coils shall be provide with solenoid valve, thermostatic expansion valve and thermostat. Piped and wired to the junction box for positive pump down.

B. Evaporator coil shall be equipped with energy savings "EC" Motors.

4. SAFETY CAUTION

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

COOLTEC

CONSTRUCTION NOTES FOR TRADES

1. GENERAL CONTRACTORS

- **A.** General contractors shall verify all dimensions and coordinate with other trades.
- **B.** General contractors shall prepare wall 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 for 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 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, not run in conduit, shall be insulated back to compressor with Armstrong Arma-Flex AP – 25/50 foamed plastic insulation or equal in accord with direction of the manufacturer. Minimum thickness shall be 3/4 inch for commercial temperature and 1 inch for low temperature.

3. ELECTRICAL CONTRACTOR

- **A.** Electrical contractor provide power for refrigeration 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 lines for walk-in cooler and freezer, pitched 1/2" 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 codes.

REPRESENTED BY:

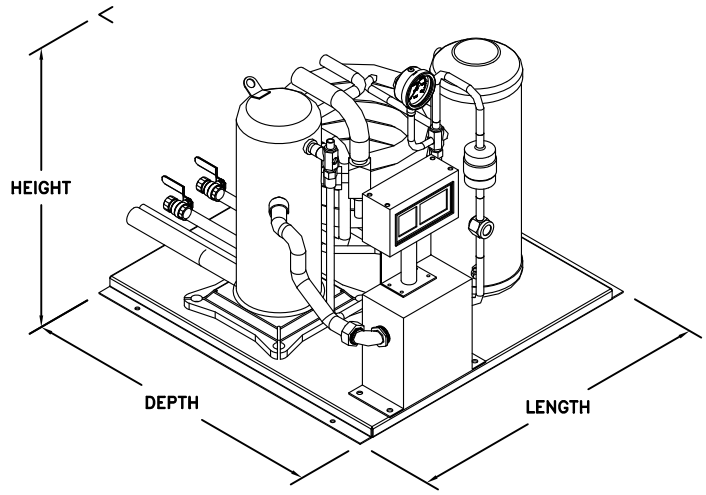
COOLTEC REFRIGERATION CORP.
1250 E. FRANKLIN AVE. UNIT B, POMONA, CA 91766 ❄ T: 909-865-2229 ❄ F: 909-868-0777
sales@cooltecrefrigeration.com ❄ www.cooltecrefrigeration.com

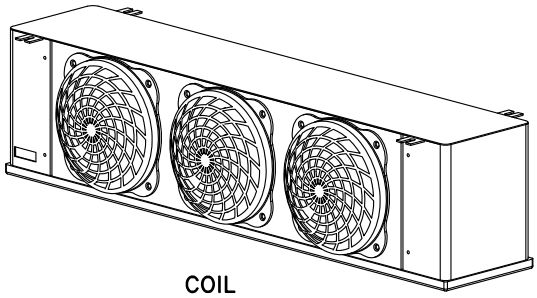
COOLTEC

ITEM:_____

QTY:_____

"POWER-PAK"
WATER-COOLED CONDENSING UNITS FOR INDOOR APPLICATIONS





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CONDENSING UNIT
33SZ FILE SA32027

FOR MEDIUM & LOW TEMPERATURE APPLICATIONS

TYPICAL APPLICATIONS:

Restaurants, Schools, Cafeterias, Reach-In Units, Display Cases, Grab-N-Go Cases, Under-Counter Refrigerators and Freezers, Walk-In Coolers and Freezers, Cold Pans, and various types of related equipment for food service operations.

CAPACITY RANGE:

1/2 to 5 HP Units, Medium and Low Temperature Applications for Hermetic or Scroll Compressors. Contact factory for larger capacity units, up to 10 HP.

FEATURES:

Low Profile Design * Available in Hermetic or Scroll Compressors * Economical to Install * Available in 208 Volts, Single Phase, 60 Hertz and in 208-230 Volts, Three Phase, 60 Hertz Electrical Service. The Power-pak is the most affordable single condensing unit from Cooltec's product line.

FACTORY INSTALLED ACCESSORIES:

Water-Cooled Condensing Unit Includes:

Condensing unit with pre-assembled liquid line drier and sight glass, suction line, pressure control, contactor for 3-phase units, 24 hour timer for medium temp units (for cooler defrost application) and defrost timer for freezer's electric defrost applications.
Optional: Fusible Disconnect.

Unit Cooler Includes:

Wall mount coils, each with thermostat, solenoid valve, and expansion (TX) valve, mounted and wired for one point electrical connection.
Optional: ceiling mount coil.

COOLTEC REFRIGERATION CORP.
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MEDIUM TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN COOLER

CONDENSING UNIT CAPACITY									COIL CAPACITY						TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		MOUNTING BASE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ			LINE SIZE (100' MAX.)		TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz		SHIP WT LBS.
											FAN MOTOR		DEFROST	SUCTION OD	LIQUID OD			
		+20°F	+25°F	208-230/1	208-230/3	L	D	H			RLA	VOLTS	HTR.RLA 208V/1PH			208V 1PH	208V 3PH	
0.5	WTHM05-2S	5.6	6.2	4.6	----	24.0	24.0	18.0	1	ADT-052	0.9	115	----	5/8	3/8	4.6	----	150
0.75	WTHM08-2S	8.9	9.9	8.1	----	24.0	24.0	18.0	1	ADT-090	1.8	115	----	7/8	3/8	8.1	----	150
1.0	WTZM10-2T	11.6	12.8	----	7.2	24.0	24.0	18.0	1	ADT-104	1.8	115	----	7/8	3/8	----	7.2	160
1.5	WTZM15-2T	16.0	17.7	----	8.7	24.0	24.0	18.0	1	ADT-156	2.7	115	----	7/8	3/8	----	8.7	160
2.0	WTZM20-2T	21.6	23.9	----	12.3	24.0	24.0	23.0	1	ADT-208	3.6	115	----	1-1/8	1/2	----	12.3	250
2.5	WTZM25-2T	29.0	32.0	----	13.7	24.0	24.0	23.0	1	ADT-312	5.4	115	----	1-1/8	1/2	----	13.7	280
3.0	WTZM30-2T	32.3	35.7	----	13.9	24.0	24.0	23.0	1	ADT-312	5.4	115	----	1-1/8	1/2	----	13.9	280
3.5	WTZM35-2T	36.8	40.7	----	18.4	24.0	24.0	23.0	1	ADT-370	5.4	115	----	1-1/8	1/2	----	18.4	280
4.0	WTZM40-2T	40.5	44.8	----	20.0	26.0	26.0	23.0	2	ADT-208	7.2	115	----	1-3/8	1/2	----	20.0	440
5.0	WTZM50-2T	46.6	51.6	----	19.9	26.0	26.0	23.0	2	ADT-260	9.0	115	----	1-3/8	5/8	----	19.9	440

NOTES: 1. Condensing unit capabilities are 95°F ambient. Cooler temp is at 35°F with 25°F suction gas temp.
2. Unit cooler and condensing units will have separate power supplies for walk-in cooler applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

LOW TEMPERATURE HERMETIC/SCROLL COMPRESSORS R-404A WALK-IN FREEZER

CONDENSING UNIT CAPACITY									COIL CAPACITY						TOTAL SYSTEM				
HP	COMPRESSOR MODEL NO. (Copeland)	CAPACITY MBH @ 95°F AMB		ELECTRIC DATA (AMPS) VOLTS/PHASE/60Hz		MOUNTING BASE DIMENSIONS (INCHES)			COIL QTY	COIL MODEL NO.	RATING @ 1-PH, 60 HZ			LINE SIZE (100' MAX.)		TOTAL SYSTEM AMPS VOLTS/PHASE/60Hz		SHIP WT LBS.
											FAN MOTOR		DEFROST	SUCTION OD	LIQUID OD			
		-10°F	-20°F	208-230/1	208-230/3	L	D	H			RLA	VOLTS	HTR.RLA 208V/1PH			208V 1PH	208V 3PH	
0.5	WTHL05-2S	2.7	1.9	4.6	----	24.0	24.0	18.0	1	TL-21	0.5	208	4.8	1/2	3/8	5.1	----	150
0.75	WTHL08-2S	4.4	3.3	8.1	----	24.0	24.0	18.0	1	LET-035	0.5	208	3.9	5/8	3/8	8.6	----	150
1.0	WTZL10-2T	5.9	4.0	----	5.7	24.0	24.0	18.0	1	LET-040	0.5	208	3.9	7/8	3/8	----	6.2	160
1.5	WTZL15-2T	9.7	6.8	----	6.3	24.0	24.0	18.0	1	LET-065	1.0	208	7.8	7/8	3/8	----	7.3	160
2.0	WTZL20-2T	9.9	7.8	----	8.3	24.0	24.0	23.0	1	LET-075	1.0	208	7.8	7/8	3/8	----	9.3	250
3.0	WTZL30-2T	14.0	11.1	----	8.7	24.0	24.0	23.0	1	LET-090	1.0	208	7.8	1-1/8	3/8	----	9.7	280
3.5	WTZL35-2T	17.4	13.8	----	10.9	24.0	24.0	23.0	1	LET-120	1.5	208	11.7	1-1/8	3/8	----	12.4	280
4.0	WTZL40-2T	20.2	15.8	----	11.9	26.0	26.0	23.0	1	LET-140	1.5	208	11.7	1-1/8	3/8	----	13.4	440

NOTES: 1. Condensing unit capabilities are 95°F ambient. Freezer is at -10°F with -20°F suction gas temp.
2. Unit cooler and condensing units will have SAME power supplies for walk-in freezer (low temp.) applications.
3. 1MBH=100BTUs/Hour
4. To add coil, add letter C at the end: -1C for 1 coil, and -2C for 2 coils.

COOLTEC

"POWER-PAK"
WATER COOLED CONDENSING UNIT
FOR INDOOR LOCATION

INDOOR WATER COOLED REFRIGERATION PACKAGE
The refrigeration package shall be pre-engineered and factory assembled unit, trade name Water cooled **"POWER-PAK",** as manufactured by **COOLTEC REFRIGERATION CORP.**
1250 E. Franklin Ave. Unit B, 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, the following **COOLTEC** UL approved **"POWER-PAK"** water cooled pre-assemble remote system with evaporator coil. All units shall be electrically tested and shipped ready for field installation. The units shall be suitable for operation as specified below:

ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.
ITEM NO._____MODEL NO. _____, AMPS_____, VOLTS _____, PHASE _____, HZ._____.

1. CONSTRUCTION

The compressor mounting base shall be made of 14ga. Galvanized steel. The mounting base shall be pre-assemble, welded, cleaned and primed and powder coated epoxy enamel and baked. The water cooled condenser shall be designed for 15°F TD.

2. WATER COOLED REFRIGERATION SYSTEMS

A. Water cooled condensing units shall be hermatic/glacier scroll type (Copeland)
B. All units shall be new factory assembled, to operate with the refrigerant specified. Refrigerant R404A is used for all medium temperature and low temperature applications.
C. Compressor shall be Copeland. The speed shall not exceed 1750 RPM. Compressor shall be equipped with suction and discharge service valves.
D. 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.
E. Each condensing unit shall include liquid line drier and sight glass, head pressure control, all assembled and piped
F. All units shall be equipped with water regulating valves to control the head pressure.

3. REFRIGERATION PIPING

A. All refrigerant lines shall be extended to one side of the package in a neat and orderly manner.
B. All tubing shall be securely supported and anchored with "Uni-strut" or equal clamps and channels.
C. Ends of lines shall be capped against contamination after the units are completed. These capped ends are to be only at final connection of the package to fixtures.

4. WATER PIPING

A. Water supply and return header shall be installed using copper tubing.
B. All water lines shall be pre-piped with shut-off valves for supply and return of each unit.

5. SAFETY CAUTION

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

COOLTEC

6. EVAPORATOR COIL

- **A.** Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins. All evaporator coils shall be provide with solenoid valve, thermostatic expansion valve and thermostat. Piped and wired to the junction box for positive pump down.
- **B.** Evaporative coils shall be equipped with energy saving "EC" motors.

CONSTRUCTION NOTES FOR TRADES

1. GENERAL CONTRACTORS

- **A.** General contractors shall verify all dimensions and coordinate with other trades.
- **B.** General contractors shall prepare wall 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 for 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 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, not run in conduit, shall be insulated back to compressor with Armstrong Arma-Flex AP – 25/50 foamed plastic insulation or equal in accord with direction of the manufacturer. Minimum thickness shall be 3/4 inch for commercial temperature and 1 inch for low temperature.

3. ELECTRICAL CONTRACTOR

- **A.** Electrical contractor provide power for refrigeration 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 cold water supply and return to water cooled refrigeration package.
- **B.** Plumbing contractor to provide type "M" copper drain lines for walk-in cooler and freezer, pitched 1/2" 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.
- **C.** Plumbing contractor to provide individual drain line for each evaporator unless otherwise called for.
- **D.** All plumbing installation shall be in accordance with local codes.

REPRESENTED BY:

COOLTEC REFRIGERATION CORP.
1250 E. FRANKLIN AVE. UNIT B, POMONA, CA 91766 ❄ T: 909-865-2229 ❄ F: 909-868-0777
sales@cooltecrefrigeration.com ❄ www.cooltecrefrigeration.com