



MECHANICAL PERMIT APPLICATION

City of Portland, Oregon - Bureau of Development Services
 1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7363 • TTY 503-823-6868 • www.portlandoregon.gov/bds

12-189137-MT

Type of work

New construction Addition/alteration/replacement
 Demolition Other:

Category of construction

1 & 2 family dwelling Commercial/industrial Accessory building
 Multifamily Master builder Other:

Job site information and location

Job no.: Job address: 8235 NE Airport Way
 City/State/ZIP: Portland, OR
 Suite/bldg./apt. no.: Project name: Sheaton
 Cross street/directions to job site: 82nd
 Subdivision: Lot no. Tax map/parcel no.

Description of work (example: upstairs bath fan/dryer exhaust)

move water cooled units in attic to roof & convert to air cooled change out of evaporators

Provide RS permit no.

Property owner **Tenant**

Name: E-mail:
 Address:
 City/State/ZIP:
 Phone: FAX:

Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.

Owner signature: Date:

Contractor **Subcontractor**

Business name: Arctic E-mail:
 Address:
 City/State/ZIP:
 Phone: FAX:
 Lic. no. CCB lic. no. 152332
 Authorized signature: Jimmy Wynn
 Print name: Date:

Applicant **Contact Person**

Business name: Arctic Heating & Refrig
 Contact name: Jimmy Wynn
 Address: PO Box 83795
 City/State/ZIP: Portland, OR
 Phone: 503 735 2808 FAX: 503 240 7732
 E-mail: arctic 52 @ msn . com

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Commercial Fee Schedule - Use Checklist

Mechanical permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar of all mechanical materials, equipment, labor, overhead and profit.)
 Value: \$ 20,000

Residential Equipment / Systems Fees

For special information use checklist

Description	Qty.	Fee	Total
Heating / cooling			
Air conditioner (site plan required)		\$26	
Furnace / burner including duct work / vent / liner		\$55	
Heat pump (site plan required)		\$51	
Air handling unit		\$26	
Hydronic hot water system		\$32	
Residential boiler (radiator or hydronic) includes piping		\$32	
Unit heaters (fuel type, not electric) in-wall, in-duct, suspended, etc.		\$26	
Vent for appliance other than furnace		\$22	
Alteration of existing HVAC system		\$32	

Other fuel appliances

Decorative gas fireplace		\$26	
Flue vent for water heater or gas fireplace		\$22	
Wood / pellet stove		\$57	
Gas or wood fireplace / insert		\$57	
Chimney / liner / flue / vent		\$22	
Other:		\$32	

Environmental exhaust and ventilation

Range hood / other kitchen equipment		\$14	
Clothes dryer exhaust		\$14	
Single-duct exhaust (bathrooms, toilet compartments, utility rooms)		\$14	
Attic / crawl space fans		\$14	
Other:		\$32	

Gas fuel piping

\$14 for the first four, \$2.57 for each additional. Please indicate number of fuel gas piping outlets below:

Furnace, etc.			
Gas heat pump			
Wall / suspended / unit heater			
Water heater / boiler			
Fireplace			
Range			
Barbecue			
Clothes dryer			
Other:			

Other appliances

Including oil tanks, gas and diesel generators, gas and electric kilns, gas appliances / equipment not included above		\$32	
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Mechanical permit fees

	Subtotal	
	Minimum permit fee (\$95)	
	Commercial plan review (60% of permit fee)	
	State surcharge (12% of permit fee)	
	TOTAL PERMIT FEE	

RS Permit/No Fees Due

Residential Combo permit subcontractor submittals only can be faxed to 503-823-7693 or e-mailed to bdscombinspec@portlandoregon.gov.

2



Google earth



8235 NE Airport Way
Portland, OR.

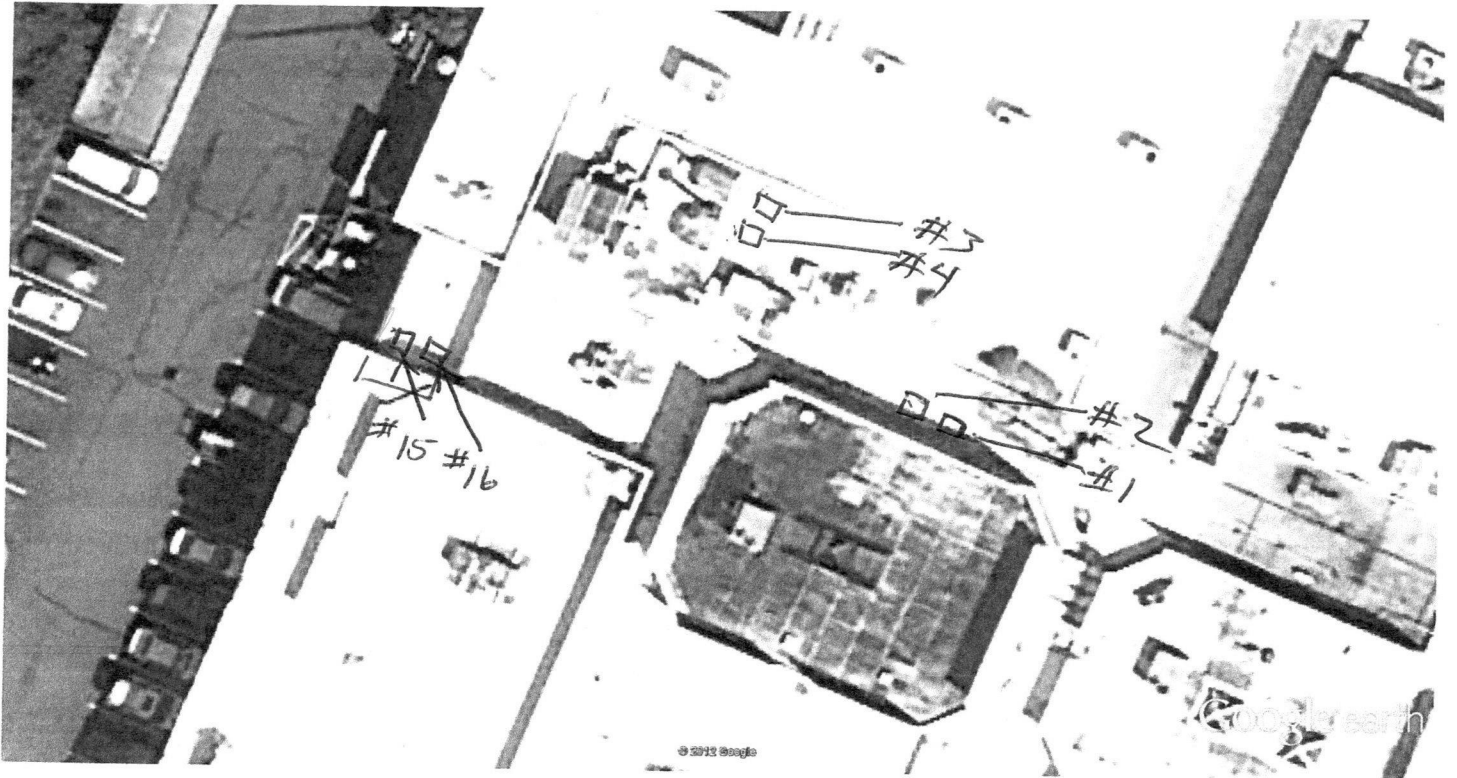
Airport Way ←

we are moving water cooled condensers to roof
& converting to air cooled.

All line less than 10' on

City of Portland
REVIEWED FOR CODE
COMPLIANCE
all *moves* OCT 02 2012
Permit Number

12-189137-MT



Google earth

feet 100
meters 40



#s 1, 2, 15 & 16

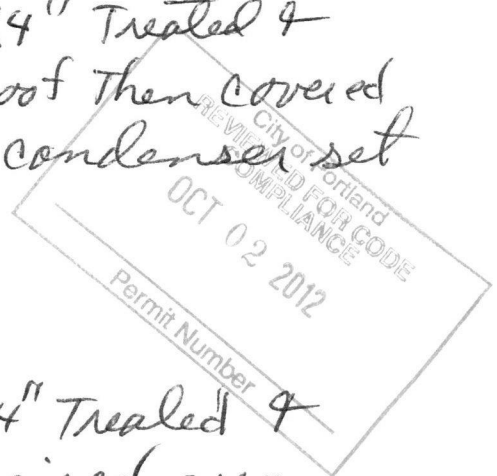
ARE ON 4" x 4" Treated & lagged to roof then covered by roofers condenser set on 4" x 4"s

3 & 4

are on 4" x 4" Treated & strapped to raised area (table) on roof to seismically Tie to roof.

#s 3 & 2 both weigh 256#s

#s 1, 4, 15 & 16 all weigh 141#s



Condensing Unit

Unit Specifications (Medium Temp.) : Scroll Compressors

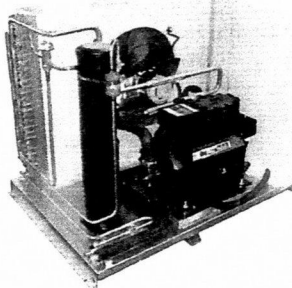
Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TS015MR404A2*	ZB11KQE	3/8	5/8	10	1840	2	28.27	38.5	17.87	D	172
TS020MR404A2*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS020MR404A3*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS025MR404A2*	ZB19KQE	1/2	7/8	16	1890	2	28.27	38.5	22.87	E	205
TS025MR404A3*	ZB19KQE	1/2	7/8	16	1890	2	28.27	38.5	22.87	E	205
TS030MR404A2*	ZB21KQE	1/2	7/8	20	3970	1	30.28	38.5	27.28	F	280
TS030MR404A3*	ZB21KQE	1/2	7/8	20	3970	1	30.28	38.5	27.28	F	280
TS040MR404A2*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS040MR404A3*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS050MR404A2*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS050MR404A3*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS060MR404A3*	ZB45KQE	1/2	1-1/8	20	4030	1	30.28	42.4	29.78	G	328

** -T Installed defrost timer

Unit Specifications (X-Low Temp.) : Scroll Compressors

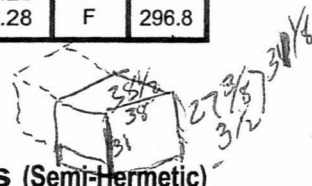
Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TS020XR404A2	ZF06K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	255.6
TS020XR404A3	ZF06K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	"
TS035XR404A2	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	256.7
TS035XR404A3	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	"
TS045XR404A2	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	284.9
TS045XR404A3	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	"
TS060XR404A3	ZF18K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	296.8

Copeland®
Compressor



Standard Features (Semi-Hermetic)

- Oil Separator
- Accumulator
- Sight Glass
- Head Pressure Control



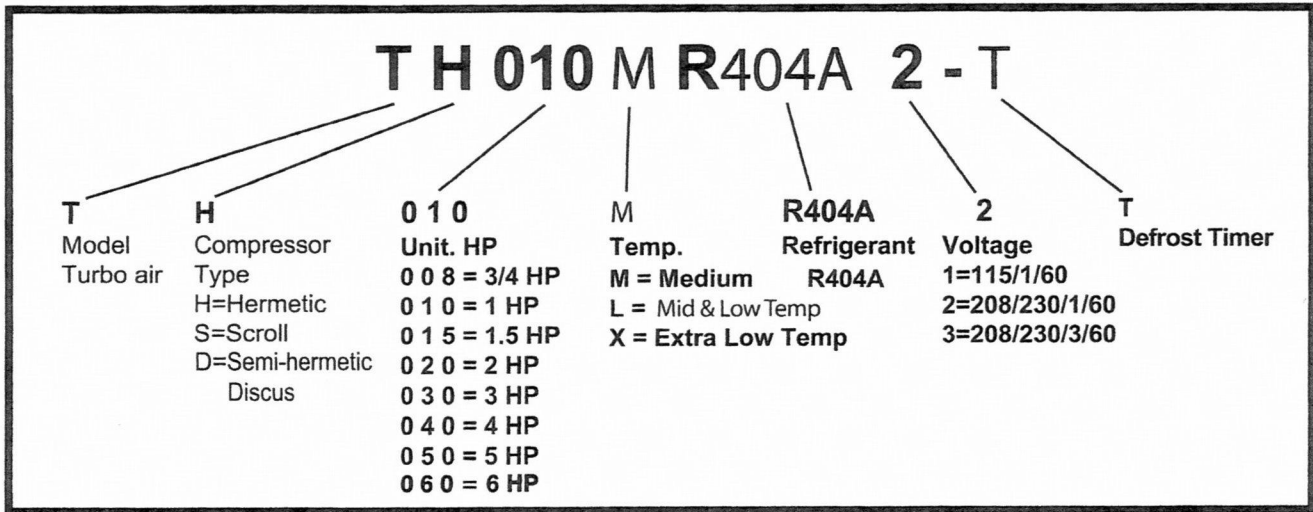
Unit Specifications (X-Low Temp.) : Semi-Hermetic Discus Compressors

Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TD040XR404A3	2DL3F20KE	1/2	1-1/8	20	4350	1	38.1	46.4	39.2	H	633.6
TD060XR404A3	3DA3F28KE	1/2	1-1/8	28	4280	1	38.1	46.4	39.2	H	720.5
TD075XR404A3	3DB3F33KE	1/2	1-1/8	28	4310	1	38.1	50.3	39.2	J	736.3
TD100XR404A3	3DS3F46KE	5/8	1-3/8	38	7730	2	38.1	58.2	39.2	J	852.1

City of Portland
COMPLIANCE CODE
Permit No. 2012

Condensing Unit

Model Nomenclature



Unit Specifications (Mid & Low Temp.) : Hermetic Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TH010LR404A2-T	*CAJ2446Z	3/8"	1/2"	6	980	1	28.27	24.49	17.87	A	148.3
TH015LR404A2	CS10K6E	3/8"	5/8"	9	1840	2	28.27	38.5	17.87	B	209.9
TH015LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH020LR404A2	CS12K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.0
TH020LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH025LR404A2	CS14K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.8
TH025LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH032LR404A2	CS20K6E	1/2"	7/8"	18	3970	1	30.28	38.5	27.28	C	274.3
TH032LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH040LR404A2	CS27K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	285.3
TH040LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH050LR404A2	CS33K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	291.7
TH050LR404A3	"	"	"	"	"	"	"	"	"	C	"

*: This model equipped with Tecumseh compressor

Unit Specifications (Extended Medium) : Hermetic Compressors

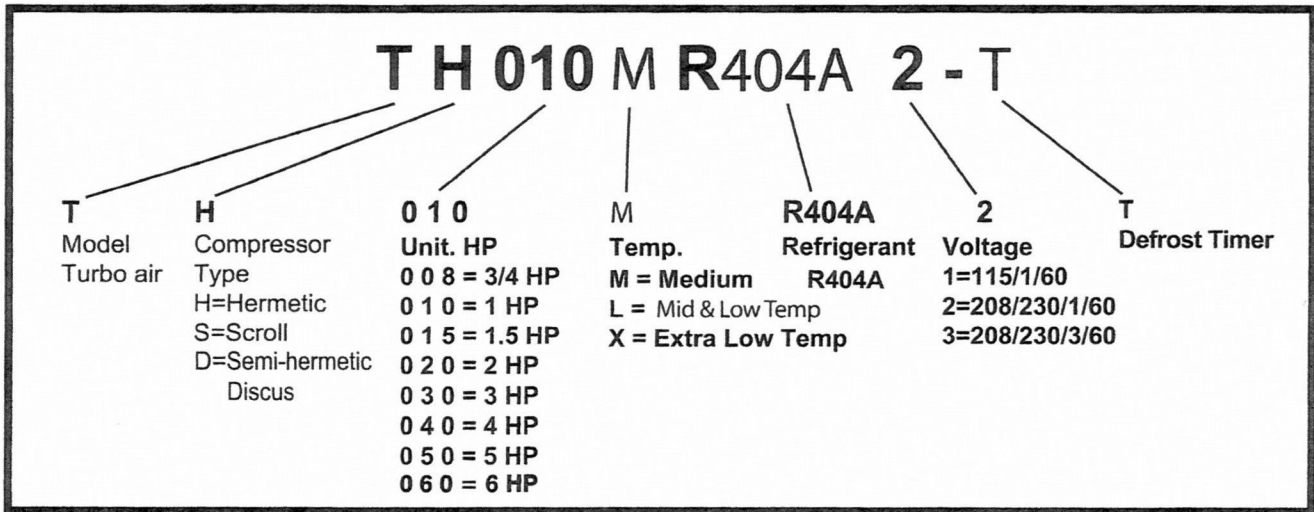
Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s)		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TH008MR404A2*	RS64C2E	3/8"	1/2"	6	980	1	24.49	28.27	17.87	A	141
TH010MR404A2*	RS70C1E	3/8"	5/8"	6	980	1	24.49	28.27	17.87	A	136

4-

All Replacement Parts are Universal!

Condensing Unit

Model Nomenclature



Unit Specifications (Mid & Low Temp.) : Hermetic Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TH010LR404A2-T	*CAJ2446Z	3/8"	1/2"	6	980	1	28.27	24.49	17.87	A	148.3
TH015LR404A2	CS10K6E	3/8"	5/8"	9	1840	2	28.27	38.5	17.87	B	209.9
TH015LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH020LR404A2	CS12K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.0
TH020LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH025LR404A2	CS14K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.8
TH025LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH032LR404A2	CS20K6E	1/2"	7/8"	18	3970	1	30.28	38.5	27.28	C	274.3
TH032LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH040LR404A2	CS27K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	285.3
TH040LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH050LR404A2	CS33K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	291.7
TH050LR404A3	"	"	"	"	"	"	"	"	"	C	"

*: This model equipped with Tecumseh compressor

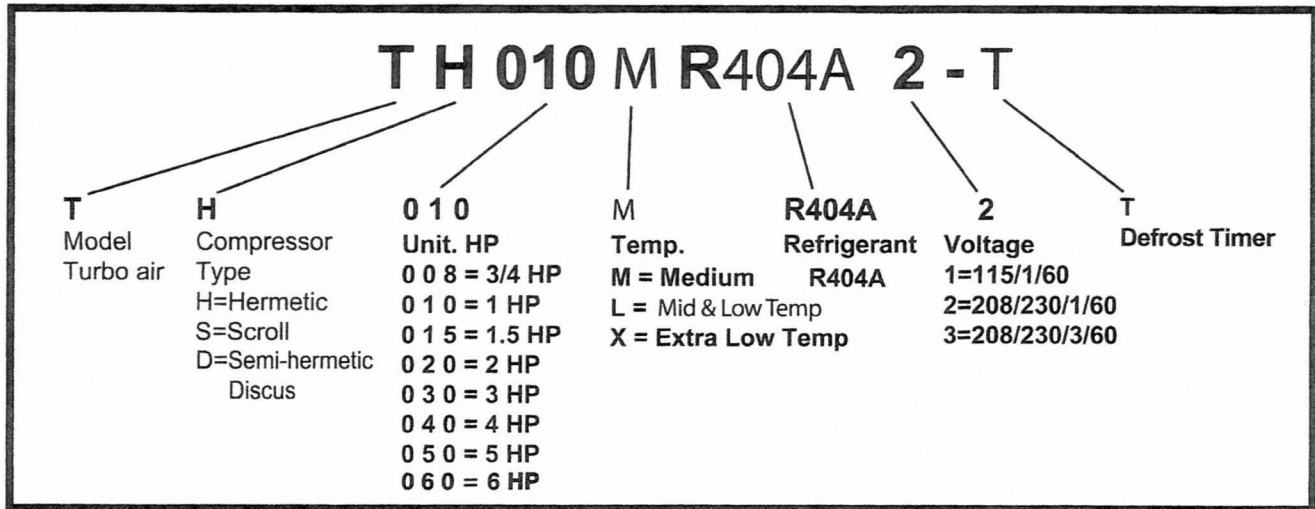
Unit Specifications (Extended Medium) : Hermetic Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s)		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM		D In.	W In.	H In.		
TH008MR404A2*	RS64C2E	3/8"	1/2"	6	980	1	24.49	28.27	17.87	A	141
TH010MR404A2*	RS70C1E	3/8"	5/8"	6	980	1	24.49	28.27	17.87	A	136

All Replacement Parts are Universal!

Condensing Unit

Model Nomenclature



Unit Specifications (Mid & Low Temp.) : Hermetic Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TH010LR404A2-T	*CAJ2446Z	3/8"	1/2"	6	980	1	28.27	24.49	17.87	A	148.3
TH015LR404A2	CS10K6E	3/8"	5/8"	9	1840	2	28.27	38.5	17.87	B	209.9
TH015LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH020LR404A2	CS12K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.0
TH020LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH025LR404A2	CS14K6E	3/8"	7/8"	9	1600	2	28.27	38.5	17.87	B	213.8
TH025LR404A3	"	"	"	"	"	"	"	"	"	B	"
TH032LR404A2	CS20K6E	1/2"	7/8"	18	3970	1	30.28	38.5	27.28	C	274.3
TH032LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH040LR404A2	CS27K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	285.3
TH040LR404A3	"	"	"	"	"	"	"	"	"	C	"
TH050LR404A2	CS33K6E	1/2"	1-1/8"	18	3760	1	30.28	38.5	27.28	C	291.7
TH050LR404A3	"	"	"	"	"	"	"	"	"	C	"

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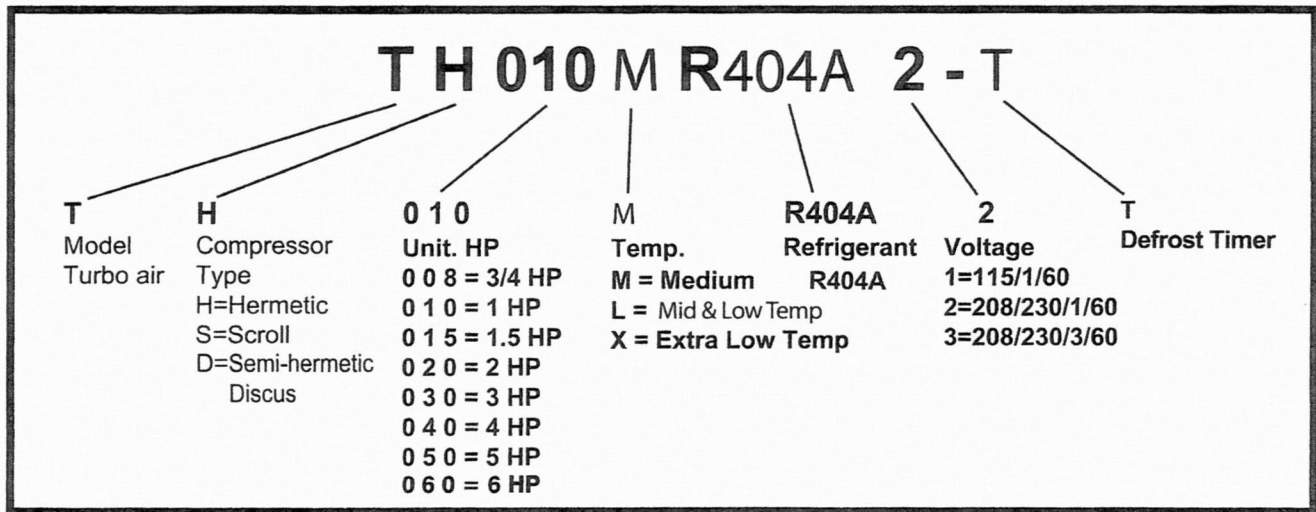
Unit Specifications (Extended Medium) : Hermetic Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s)		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM		D In.	W In.	H In.		
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TH010MR404A2*	RS70C1E	3/8"	5/8"	6	980	1	24.49	28.27	17.87	A	136

All Replacement Parts are Universal!

Condensing Unit

Model Nomenclature



Unit Specifications (Mid & Low Temp.) : Hermetic Compressors

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All Replacement Parts are Universal!

Condensing Unit

Unit Specifications (Medium Temp.) : Scroll Compressors

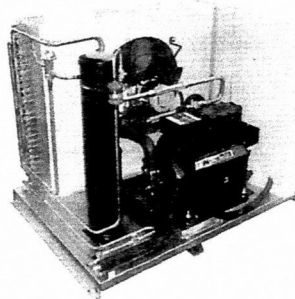
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		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
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TS020MR404A2*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS020MR404A3*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS025MR404A2*	ZB19KQE	1/2	7/8	16	1890	2	28.27	38.5	22.87	E	205
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TS040MR404A2*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS040MR404A3*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS050MR404A2*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS050MR404A3*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS060MR404A3*	ZB45KQE	1/2	1-1/8	20	4030	1	30.28	42.4	29.78	G	328

** -T Installed defrost timer

Unit Specifications (X-Low Temp.) : Scroll Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
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TS035XR404A2	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	256.7
TS035XR404A3	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	"
TS045XR404A2	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	284.9
TS045XR404A3	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	"
TS060XR404A3	ZF18K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	296.8

Compressor



Standard Features (Semi-Hermetic)

- Oil Separator
- Accumulator
- Sight Glass
- Head Pressure Control



Unit Specifications (X-Low Temp.) : Semi-Hermetic Discus Compressors

Model	Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TD040XR404A3	2DL3F20KE	1/2	1-1/8	20	4350	1	38.1	46.4	39.2	H	633.6
TD060XR404A3	3DA3F28KE	1/2	1-1/8	28	4280	1	38.1	46.4	39.2	H	720.5
TD075XR404A3	3DB3F33KE	1/2	1-1/8	28	4310	1	38.1	50.3	39.2	I	736.3
TD100XR404A3	3DS3F46KE	5/8	1-3/8	38	7730	2	38.1	58.2	39.2	J	852.1

Condensing Unit

Unit Specifications (Medium Temp.) : Scroll Compressors

Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TS015MR404A2*	ZB11KQE	3/8	5/8	10	1840	2	28.27	38.5	17.87	D	172
TS020MR404A2*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS020MR404A3*	ZB15KQE	3/8	7/8	10	1600	2	28.27	38.5	17.87	D	194
TS025MR404A2*	ZB19KQE	1/2	7/8	16	1890	2	28.27	38.5	22.87	E	205
TS025MR404A3*	ZB19KQE	1/2	7/8	16	1890	2	28.27	38.5	22.87	E	205
TS030MR404A2*	ZB21KQE	1/2	7/8	20	3970	1	30.28	38.5	27.28	F	280
TS030MR404A3*	ZB21KQE	1/2	7/8	20	3970	1	30.28	38.5	27.28	F	280
TS040MR404A2*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS040MR404A3*	ZB29KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	300
TS050MR404A2*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS050MR404A3*	ZB38KQE	1/2	1-1/8	20	3760	1	30.28	38.5	27.28	F	311
TS060MR404A3*	ZB45KQE	1/2	1-1/8	20	4030	1	30.28	42.4	29.78	G	328

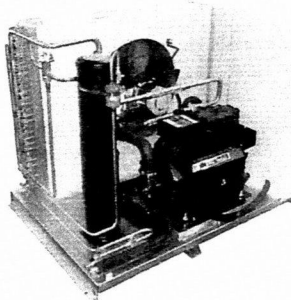
* -T Installed defrost timer

Unit Specifications (X-Low Temp.) : Scroll Compressors

Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TS020XR404A2	ZF06K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	255.6
TS020XR404A3	ZF06K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	"
TS035XR404A2	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	256.7
TS035XR404A3	ZF11K4E	1/2	7/8	13	2010	2	28.27	38.5	22.87	E	"
TS045XR404A2	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	284.9
TS045XR404A3	ZF13K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	"
TS060XR404A3	ZF18K4E	1/2	1-1/8	18	3760	1	30.28	38.5	27.28	F	296.8

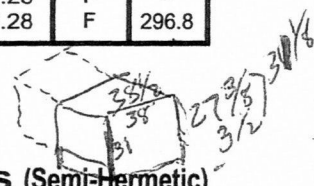
2-

Copeland®
Compressor



Standard Features (Semi-Hermetic)

- Oil Separator
- Accumulator
- Sight Glass
- Head Pressure Control



Unit Specifications (X-Low Temp.) : Semi-Hermetic Discus Compressors

Model	Copeland® Compressor	Connections (ID)		Receiver 90% Full Lbs	Fan(s) Data		Dimensions			Plan View	Net Wt.
		Liquid	Suction		CFM	No.	D In.	W In.	H In.		
TD040XR404A3	2DL3F20KE	1/2	1-1/8	20	4350	1	38.1	46.4	39.2	H	633.6
TD060XR404A3	3DA3F28KE	1/2	1-1/8	28	4280	1	38.1	46.4	39.2	H	720.5
TD075XR404A3	3DB3F33KE	1/2	1-1/8	28	4310	1	38.1	50.3	39.2	I	736.3
TD100XR404A3	3DS3F46KE	5/8	1-3/8	38	7730	2	38.1	58.2	39.2	J	852.1

OCT 10 2012
NEW YORK
COMPLIANCE

Low Profile Unit Cooler

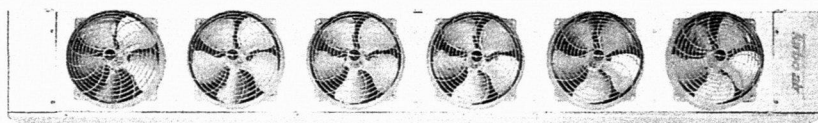
Now Order TXV Pre Mounted Coil

ADR Air Defrost Models with PSC Motors.

(All Information and Price List)

ADR Model	Capacity BTUH 10°F TD/6°C TD 25°F SST/-4°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 115V 1Ph 60Hz			EC Motor Data 120V 1Ph 60Hz	
						Total			Total	
				CFM	No.	HP	Amps	Watts	Amps	Watts
ADR068A	6825(Btu)	7/8 ID	1/4 OD	650	1	1/15	0.75	80	1.00	50
ADR073A	7350	7/8 ID	1/4 OD	1460	2	1/15	1.50	160	2.00	100
ADR109A	10920	7/8 ID	1/4 OD	1400	2	1/15	1.50	160	2.00	100
ADR136A	13650	7/8 ID	1/4 OD	1300	2	1/15	1.50	160	2.00	100
ADR163A	16380	7/8 ID	1/4 OD	2100	3	1/15	2.25	240	3.00	150
ADR196A	19600	7/8 ID	1/4 OD	1950	3	1/15	2.25	240	3.00	150
ADR218A	21840	1-1/8 ID	1/4 OD	2800	4	1/15	3.00	320	4.00	200
ADR273A	27300	1-1/8 ID	1/4 OD	3250	5	1/15	3.75	400	5.00	250
ADR393A	39300	1-3/8 ID	1/4 OD	3900	6	1/15	4.5	480	6.00	300

• ADR***AE: EC Motor • Coil Inlet: 1/2 OD • Drain: 3/4 MPT
• ADR***AX: TXV mounted



LED Electric Defrost Models with PSC Motors.

(All Information and Price List)

LED Model	Capacity BTUH 10°F TD/6°C TD -20°F SST/-29°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 208-230V 1Ph 60Hz			EC Motor Data 230V 1Ph 60Hz		Defrost Heater (Total Amps)		
						Total			Total				
				CFM	No.	HP	Amps	Watts	Amps	Watts	Watts	230/1/60	230/3/60
LED042B	4200(Btu)	5/8 ID	1/4 OD	700	1	1/15	0.35	80	0.60	50	900	3.9	2.3
LED068B	6825	5/8 ID	1/4 OD	1400	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED082B	8230	5/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED094B	9450	7/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED126B	12600	7/8 ID	1/4 OD	2100	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED147B	14700	7/8 ID	1/4 OD	1950	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED168B	16880	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED189B	18900	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED210B	21000	1-1/8 ID	1/4 OD	3250	5	1/15	1.75	400	3.00	250	4500	19.6	11.3
LED252B	25200	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6
LED300B	30030	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6

• LED***BE: EC Motor • Coil Inlet: 1/2 OD • Drain: 3/4 MPT
• LED***BX: TXV mounted

Low Profile Unit Cooler

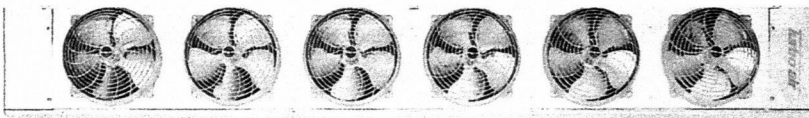
Now Order TXV Pre Mounted Coil

ADR Air Defrost Models with PSC Motors.

(All Information and Price List)

ADR Model	Capacity BTUH 10°F TD/6°C TD 25°F SST/-4°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 115V 1Ph 60Hz			EC Motor Data 120V 1Ph 60Hz	
						Total			Total	
						HP	Amps	Watts	Amps	Watts
ADR068A	6825(Btu)	7/8 ID	1/4 OD	650	1	1/15	0.75	80	1.00	50
ADR073A	7350	7/8 ID	1/4 OD	1460	2	1/15	1.50	160	2.00	100
ADR109A	10920	7/8 ID	1/4 OD	1400	2	1/15	1.50	160	2.00	100
ADR136A	13650	7/8 ID	1/4 OD	1300	2	1/15	1.50	160	2.00	100
ADR163A	16380	7/8 ID	1/4 OD	2100	3	1/15	2.25	240	3.00	150
ADR196A	19600	7/8 ID	1/4 OD	1950	3	1/15	2.25	240	3.00	150
ADR218A	21840	1-1/8 ID	1/4 OD	2800	4	1/15	3.00	320	4.00	200
ADR273A	27300	1-1/8 ID	1/4 OD	3250	5	1/15	3.75	400	5.00	250
ADR393A	39300	1-3/8 ID	1/4 OD	3900	6	1/15	4.5	480	6.00	300

* ADR***AE: EC Motor * Coil Inlet: 1/2 OD * Drain: 3/4 MPT
* ADR***AX: TXV mounted



LED Electric Defrost Models with PSC Motors.

(All Information and Price List)

LED Model	Capacity BTUH 10°F TD/6°C TD -20°F SST/-29°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 208-230V 1Ph 60Hz			EC Motor Data 230V 1Ph 60Hz		Defrost Heater (Total Amps)		
						Total			Total		Watts	230/ 1/60	230/ 3/60
						HP	Amps	Watts	Amps	Watts			
LED042B	4200(Btu)	5/8 ID	1/4 OD	700	1	1/15	0.35	80	0.60	50	900	3.9	2.3
LED068B	6825	5/8 ID	1/4 OD	1400	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED082B	8230	5/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED094B	9450	7/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED126B	12600	7/8 ID	1/4 OD	2100	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED147B	14700	7/8 ID	1/4 OD	1950	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED168B	16880	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED189B	18900	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED210B	21000	1-1/8 ID	1/4 OD	3250	5	1/15	1.75	400	3.00	250	4500	19.6	11.3
LED252B	25200	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6
LED300B	30030	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6

* LED***BE: EC Motor * Coil Inlet: 1/2 OD * Drain: 3/4 MPT
* LED***BX: TXV mounted

Low Profile Unit Cooler

Now Order TXV Pre Mounted Coil

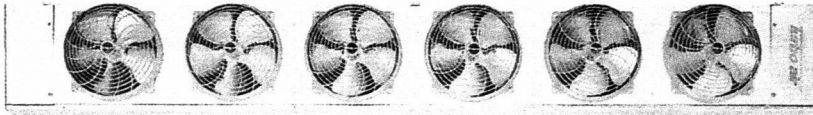
ADR Air Defrost Models with PSC Motors.

(All Information and Price List)

ADR Model	Capacity BTUH 10°F TD/6°C TD 25°F SST/-4°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 115V 1Ph 60Hz			EC Motor Data 120V 1Ph 60Hz	
						Total			Total	
						HP	Amps	Watts	Amps	Watts
ADR068A	6825(Btu)	7/8 ID	1/4 OD	650	1	1/15	0.75	80	1.00	50
ADR073A	7350	7/8 ID	1/4 OD	1460	2	1/15	1.50	160	2.00	100
ADR109A	10920	7/8 ID	1/4 OD	1400	2	1/15	1.50	160	2.00	100
ADR136A	13650	7/8 ID	1/4 OD	1300	2	1/15	1.50	160	2.00	100
ADR163A	16380	7/8 ID	1/4 OD	2100	3	1/15	2.25	240	3.00	150
ADR196A	19600	7/8 ID	1/4 OD	1950	3	1/15	2.25	240	3.00	150
ADR218A	21840	1-1/8 ID	1/4 OD	2800	4	1/15	3.00	320	4.00	200
ADR273A	27300	1-1/8 ID	1/4 OD	3250	5	1/15	3.75	400	5.00	250
ADR393A	39300	1-3/8 ID	1/4 OD	3900	6	1/15	4.5	480	6.00	300

• ADR***AE:EC Motor • Coil Inlet: 1/2 OD • Drain: 3/4 MPT

• ADR***AX:TXV mounted



LED Electric Defrost Models with PSC Motors.

(All Information and Price List)

LED Model	Capacity BTUH 10°F TD/6°C TD -20°F SST/-29°C SST	Suction	External Equalizer	Fan Data		PSC Motor Data 208-230V 1Ph 60Hz			EC Motor Data 230V 1Ph 60Hz		Defrost Heater (Total Amps)		
						Total			Total		230/	230/	
						HP	Amps	Watts	Amps	Watts	Watts	1/60	3/60
LED042B	4200(Btu)	5/8 ID	1/4 OD	700	1	1/15	0.35	80	0.60	50	900	3.9	2.3
LED068B	6825	5/8 ID	1/4 OD	1400	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED082B	8230	5/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED094B	9450	7/8 ID	1/4 OD	1300	2	1/15	0.70	160	1.20	100	1800	7.8	4.5
LED126B	12600	7/8 ID	1/4 OD	2100	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED147B	14700	7/8 ID	1/4 OD	1950	3	1/15	1.05	240	1.80	150	2700	11.7	6.8
LED168B	16880	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED189B	18900	1-1/8 ID	1/4 OD	2600	4	1/15	1.40	320	2.40	200	3600	15.7	9.0
LED210B	21000	1-1/8 ID	1/4 OD	3250	5	1/15	1.75	400	3.00	250	4500	19.6	11.3
LED252B	25200	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6
LED300B	30030	1-1/8 ID	1/4 OD	3900	6	1/15	2.10	480	3.60	300	5400	23.5	13.6

• LED***BE:EC Motor • Coil Inlet: 1/2 OD • Drain: 3/4 MPT

• LED***BX:TXV mounted