

## Copeland™ Large Outdoor Refrigeration Units

Copeland air-cooled outdoor refrigeration units for medium-temperature and low-temperature applications.

Emerson has developed this series of refrigeration units especially for outdoor use. They feature the latest technology in an assembly of high quality components which are adjusted for efficient and reliable operation.

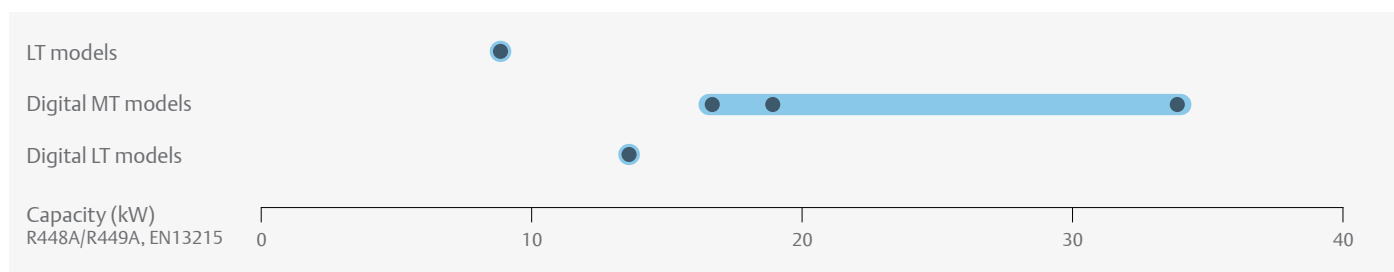
The line-up offers state-of-the-art technology and models featuring stepless capacity control, vapor injection and fan speed control. This makes it the first choice for target applications in food retail and food service:

- Proximity and convenience stores
- Mini markets and supermarkets
- Bars, restaurants and kitchens
- Beer cellars and beverage coolers



Copeland outdoor refrigeration unit with scroll compressors

## OL/OM Line-up



## Features and Benefits

- Standard equipment: scroll compressor(s), crankcase heater(s), condenser with thermally protected fan(s), fan speed control, HP and LP switch, and EC fan(s)
- Suitable for multiple refrigerants: R407A/F, R448A/ R449A, R404A, R134a, R450A and R513A
- Wide range of quality accessories
- Excellent efficiency
- Filter drier, liquid sight glass and solenoid valve in liquid line
- Minimize capital investment
- Designed to the quality requirements of the retail sector
- Ready for heat recovery
- Liquid level control
- Remote monitoring capability (Modbus)

## Maximum Allowable Pressure (PS)

- Low Side PS 22.5 bar (g)
- High Side PS 28 bar (g)

## Technical Overview

Models	Displacement (m <sup>3</sup> /h)	Receiver Capacity (l)	Number of fans	Total Fan Motor Power (W)	Suction Line Diameter (inch)	Liquid Line Diameter (inch)	Width/Depth/Height (mm)	Net Weight (kg)	Motor Version/Code	Maximum Operating Current (A)	Locked Rotor Current (A)	Sound Pressure
									3 Ph**	3 Ph**	3 Ph**	@10m - d(BA)***
<b>Digital Medium Temperature Models</b>												
OMTE-76D	28.7	20.0	1	480	1 3/8	5/8	1574/920/1135	345	TFD	11+13	64+66	45
OMTE-90D	34.1	20.0	1	480	1 3/8	5/8	1574/920/1135	348	TFD	12+13	2x74	45
OMTE-152D	57.6	30.0	2	826	1 5/8	7/8	2300/920/1135	508	TFD	24+20	2x118	47
<b>Low Temperature Models</b>												
OLE-49	42.4	20.0	1	410	1 3/8	1/2	1574/920/1135	318	TFD	30.0	139	46
<b>Low Temperature Digital Models</b>												
OLTE-82D	70.7	30.6	2	684	1 5/8	7/8	2300/920/1135	511	TFD	2x29	2x118	47

Conditions EN13215: R448A/R449A, Evaporating Temperature MT -10°C/ LT -35°C, Ambient Temperature 32°C, Suction Gas Return 20°C

\*\* 3 Ph: 380-420V/50Hz

\*\*\* @ 10m: sound pressure level at 10m distance from the compressor, free field condition

## Capacity Data

Ambient Temperature: 32°C															
R407A	Cooling Capacity (kW)							R407A	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
<b>Digital Medium Temperature Models</b>															
OMTE-76D					16.60	19.90	27.10	OMTE-76D					8.16	8.63	9.73
OMTE-90D				11.70*	18.20	21.60	29.20	OMTE-90D				8.86*	9.83	10.35	11.55
OMTE-152D				21.40	32.90	39.60	53.90	OMTE-152D				15.50	16.95	18.20	20.90

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K

\* Conditions: EN13215: Suction Superheat 10K

For detailed capacity data please refer to Emerson's Select software

Ambient Temperature: 32°C															
R407F	Cooling Capacity (kW)							R407F	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
<b>Digital Medium Temperature Models</b>															
OMTE-76D				10.60*	16.10*	19.60	26.80	OMTE-76D				7.46*	8.47*	9.06	10.30
OMTE-90D					18.20*	22.40		OMTE-90D					10.30*	11.15	
OMTE-152D					34.40	41.40	56.30	OMTE-152D					18.10	19.55	22.60

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K

\* Conditions: EN13215: Suction Superheat 10K

For detailed capacity data please refer to Emerson's Select software

## Capacity Data

Ambient Temperature: 32°C															
R448A / R449A	Cooling Capacity (kW)							R448A / R449A	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
Digital Medium Temperature Models															
OMTE-76D				11.10	16.65	19.85	27.10	OMTE-76D				7.22	8.18	8.72	10.00
OMTE-90D				12.10*	18.95	22.50	30.30	OMTE-90D				8.31*	9.62	10.30	11.95
OMTE-152D					33.90	40.50	55.10	OMTE-152D					16.80	17.75	20.30
Low Temperature Models															
OLE-49		8.99	11.25	16.70	23.30	27.00		OLE-49		8.29	8.68	10.05	12.20	13.60	
Digital Low Temperature Models															
OLTE-82D		13.50	17.00	25.60	35.90			OLTE-82D		13.75	14.90	17.85	21.70		

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K  
 \* Conditions: EN13215: Suction Superheat 10K  
 Preliminary Data

For detailed capacity data please refer to Emerson's Select software

Ambient Temperature: 32°C															
R513A	Cooling Capacity (kW)							R513A	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
Digital Medium Temperature Models															
OMTE-76D				7.68	12.00	14.75	21.50	OMTE-76D				4.40	4.63	4.75	5.03
OMTE-90D				9.04	14.15	17.35	25.20	OMTE-90D				5.09	5.39	5.56	6.01
OMTE-152D				14.90	23.10	28.10	39.90	OMTE-152D				9.65	10.50	10.90	11.75

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K  
 Preliminary Data

For detailed capacity data please refer to Emerson's Select software

Ambient Temperature: 32°C															
R404A	Cooling Capacity (kW)							R404A	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
Digital Medium Temperature Models															
OMTE-76D				12.30	17.30	20.20	26.60	OMTE-76D				7.70	8.44	8.84	9.65
OMTE-90D				14.20	19.80	23.00	29.90	OMTE-90D				9.18	10.15	10.70	11.85
OMTE-152D				25.30	36.00	42.00	54.80	OMTE-152D				16.50	17.90	18.65	20.30
Low Temperature Models															
OLE-49		10.20	12.50	18.05	24.80	28.70		OLE-49		8.00	8.54	9.93	11.70	12.70	
Digital Low Temperature Models															
OLTE-82D		17.15	21.00	30.00	41.00	47.20		OLTE-82D		13.25	14.35	16.70	19.40	20.90	

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K  
 \* Conditions: EN13215: Suction Superheat 10K

For detailed capacity data please refer to Emerson's Select software

## Capacity Data

Ambient Temperature: 32°C															
R407C	Cooling Capacity (kW)							R407C	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
Digital Medium Temperature Models															
OMTE-76D				9.39*	14.95	18.00	25.20	OMTE-76D				6.73*	7.40	7.79	8.73
OMTE-90D					17.45	21.00	29.10	OMTE-90D					9.08	9.59	10.85
OMTE-152D					31.60	38.00	52.80	OMTE-152D					15.95	16.80	18.95

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K

For detailed capacity data please refer to Emerson's Select software

\* Conditions: EN13215: Suction Superheat 10K

Ambient Temperature: 32°C															
R134a	Cooling Capacity (kW)							R134a	Power Input (kW)						
	Evaporating Temperature (°C)								Evaporating Temperature (°C)						
	-45	-35	-30	-20	-10	-5	+5		-45	-35	-30	-20	-10	-5	+5
Digital Medium Temperature Models															
OMTE-76D				6.87	10.85	13.20	18.75	OMTE-76D				4.44	4.90	5.13	5.67
OMTE-90D				7.79*	12.60	15.35	21.90	OMTE-90D				5.11*	5.71	6.01	6.71
OMTE-152D				14.05	21.70	26.50	37.90	OMTE-152D				9.78	10.20	10.65	11.60

Conditions: EN13215: Suction Gas Return 20°C, Subcooling 0K

For detailed capacity data please refer to Emerson's Select software

\* Conditions: EN13215: Suction Superheat 10K

Preliminary Data