

Copeland Semi-Hermetic Water-Cooled Condensing Units

Ranging From 0.7 to 50 HP, Delivering High Efficiency All Year Round.



- **Applications: Low/Medium/High Temperature**
- **Refrigerants: R-404A, R-22, R134A**
- **High Efficiency Shell & Tube Condenser**
- **Low Operating Costs**
- **Robust Design & Construction**

COPELAND™


EMERSON™

Semi-Hermetic Water-Cooled Condensing Units

For many years, users of Copeland™ Semi-Hermetic Condensing Units have relied on Emerson to provide high performance and value to the market. Emerson is committed to continuous technical development while maintaining the traditional values of Copeland™ for refrigeration.

The Semi-Hermetic Water-Cooled Condensing Units are manufactured at the Cold Chain & Distribution Center, Chakan, Pune. With this product range, Emerson offers, from its India manufacturing plant, the widest choice of Water-Cooled Condensing Units incorporating Semi-Hermetic technology, for commercial and industrial applications. The Condensing Units are designed by making use of the highly efficient shell and tube heat exchangers with Emerson’s proven range of high efficiency Copeland Semi-Hermetic Compressors. These Water-Cooled Condensing Units can be adopted as an option to air-cooled units in applications where space is a constraint. They can operate both with tower or city water and their handy size allows



for operation in minimum space.

With local manufacturing & stocking, Emerson customers will now get customized products according to their requirement, that too in faster lead times. Extensive engineering and manufacturing experience coupled with one of the most advanced facilities in India ensure that these feature excellent quality and are renowned in the refrigeration industry for their performance.

Standard Equipment

Condensing units come with

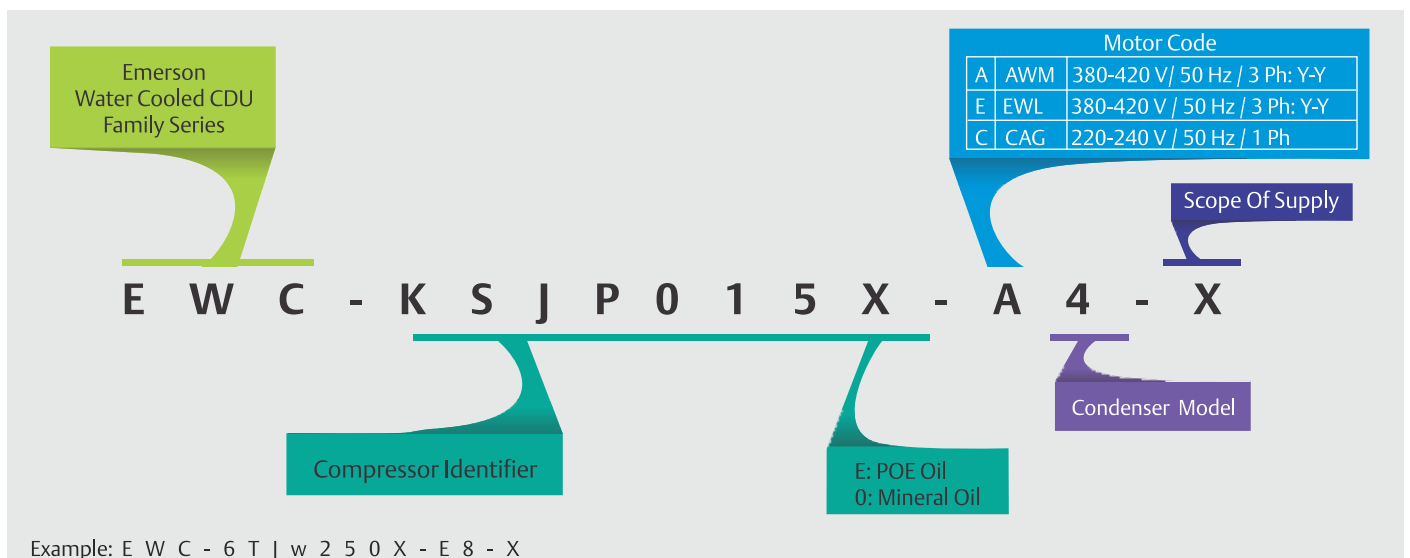
- Copeland Standard or Stream Semi-Hermetic Compressors are fitted with
 - ▶ Crankcase Heater
 - ▶ Oil Sight Glass & Oil Charge
 - ▶ Service Valves
 - ▶ Mounting Springs
- Water-Cooled Shell and tube condenser with foot mounting
 - ▶ Water Inlet/Outlet Connections
 - ▶ Shut-off Valve at Condenser Outlet
 - ▶ Safety Connection for Pressure Relief Valve
- HP/LP Switch Mounted
- Provision of Mounting Plate for Compressor & Safety Accessories on Condenser Shell
- Mechanical Oil Pressure Switch



Optional Accessories:

- Compressors With Capacity Control Kits
- Liquid Line Filter Dryer
- Sight Glass
- Isolation Valve on Liquid Line
- Shell & Tube Condenser with Liquid Level Sight Glass

Nomenclature



Salient Features

Features	Benefits
Copeland™ Standard Semi-Hermetic Compressor Or Copeland Stream Compressor with Unique Discus™ Valve Design	<ul style="list-style-type: none"> ● Reliability & High Energy Efficiency ● Advanced Diagnostics
Modular Components	<ul style="list-style-type: none"> ● Replacement Serviceability
Positive Displacement Oil Pump	<ul style="list-style-type: none"> ● Oil Lubrication Under All Operating Conditions ● Lower Service & Maintenance Cost
High Efficiency Shell & Tube Heat Exchanger	<ul style="list-style-type: none"> ● Flexible No Of Passes ● Optimized Water Flow To Reduce The Fouling & Erosion ● Easy Maintenance & Better Heat Transfer Capabilities

Low Temperature

380-420V/3 Phase/50 Hz

Copeland SH CDU Details		R404A Cooling Capacity (kW) @ 40°C Condensing Temp.									
		Evaporating Temperature °C									
CDU Model	Compressor Model	Nominal HP	-45	-40	-35	-30	-25	-20	-15	-10	-5
EWG-KSJ010E-XX	KSJ-10E	1.00	—	0.35	0.58	0.86	1.18	1.58	2.05	—	—
EWG-KSLO20E-XX	KSL-20E	2.00	0.52	0.86	1.26	1.74	2.31	3.00	3.80	4.75	5.86
EWG-LF020E-XX	LF-20E	2.00	—	0.60	1.15	1.82	2.63	3.59	—	—	—
EWG-LJ020E-XX	LJ-20E	2.00	—	0.72	1.43	2.29	3.31	4.51	—	—	—
EWG-LL030E-XX	LL-30E	3.00	0.47	1.17	2.07	3.14	4.41	5.90	—	—	—
EWG-D2SA045E-XX	D2SA-45E	4.50	1.06	1.87	2.86	4.05	5.46	7.14	9.11	11.40	14.10
EWG-D2SC055E-XX	D2SC-55E	5.50	1.09	2.04	3.24	4.69	6.44	8.51	10.95	13.80	17.15
EWG-D2SK065E-XX	D2SK-65E	6.50	1.15	2.43	3.93	5.69	7.76	10.20	13.05	16.45	20.40
EWG-D3SC075E-XX	D3SC-75E	7.50	1.61	2.80	4.34	6.28	8.67	11.55	15.00	19.05	23.80
EWG-D3SS100E-XX	D3SS-100E	10.00	2.68	4.52	6.69	9.25	12.30	15.90	20.20	25.20	31.10
EWG-D4SF100E-XX	D4SF-100E	10.00	2.95	4.84	7.19	10.05	13.55	17.70	22.60	28.30	35.00
EWG-4MF013E-XX	4MF-13E	13.00	3.60	5.74	8.38	11.60	15.50	20.20	25.80	32.40	40.10
EWG-4ML015E-XX	4ML-15E	15.00	4.79	7.51	10.75	14.65	19.35	24.90	31.50	39.30	48.40
EWG-4MM020E-XX	4MM-20E	20.00	5.66	8.72	12.30	16.60	21.60	27.70	34.70	43.10	52.70
EWG-4MT022E-XX	4MT-22E	22.00	6.69	9.93	13.85	18.55	24.30	31.10	39.10	48.60	59.70
EWG-4MU025E-XX	4MU-25E	25.00	7.24	10.75	15.05	20.30	26.70	34.30	43.50	54.20	66.80
EWG-6MM030E-XX	6MM-30E	30.00	8.86	13.25	18.45	24.70	32.30	41.50	52.50	65.60	81.10
EWG-6MT035E-XX	6MT-35E	35.00	10.30	15.00	20.80	27.80	36.50	46.90	59.30	74.10	91.40
EWG-6MU040E-XX	6MU-40E	50.00	11.00	16.40	22.90	30.90	40.60	52.30	66.40	83.10	103.00

Capacity Data At 10K Superheat, 0K Subcooling

2 Stage Low Temperature

380-420V/3 Phase/50 Hz

Copeland SH CDU Details		R404A Cooling Capacity (kW) @ 40°C Condensing Temp.									
		Evaporating Temperature °C									
CDU Model	Compressor Model	Nominal HP	-60	-55	-50	-45	-40	-35	-30	-25	-20
EWG-D6TA150E-XX	D6TA-150E SUB	15.00	4.01	5.77	7.79	10.10	12.75	15.75	19.15	23.00	27.30
EWG-D6TH200E-XX	D6TH-200E SUB	20.00	5.25	7.14	9.38	11.95	14.95	18.30	22.10	26.20	30.90
EWG-D6TJ250E-XX	D6TJ-250E SUB	25.00	6.60	8.38	10.90	13.95	17.55	21.50	25.70	30.00	34.40

Capacity Data At 10K Superheat, 0K Subcooling

High/Medium Temperature

380-420V/3 Phase/50 Hz

Copeland SH CDU Details		R404A Cooling Capacity (kW) @ 40°C Condensing Temp.									
		Evaporating Temperature °C									
CDU Model	Compressor Model	Nominal HP	-30	-25	-20	-15	-10	-5	0	5	7
EWG-KM007E-XX	KM-7E	0.70	0.75	1.00	1.29	1.64	2.04	2.50	3.02	3.61	3.87
EWG-KJ010E-XX	KJ-10E	1.00	1.03	1.37	1.76	2.23	2.76	3.38	4.08	4.88	5.23
EWG-KSL015-XX	KSJ-15E	1.50	1.36	1.77	2.25	2.82	3.47	4.23	5.1	6.09	6.53
EWG-LE020E-XX	LE-20E	2.00	1.67	2.36	3.15	4.07	5.14	6.38	7.8	9.44	10.15
EWG-LF030E-XX	LF-30E	3.00	2.64	3.52	4.56	5.78	7.19	8.81	10.65	12.8	13.7
EWG-LJ030E-XX	LJ-30E	3.00	2.93	3.91	5.06	6.41	7.96	9.76	11.8	14.15	15.15
EWG-LL040E-XX	LL-40E	4.00	3.70	4.94	6.42	8.16	10.20	12.55	15.25	18.35	19.70
EWG-D2SA055E-XX	D2SA-55E	5.50	4.70	6.19	7.94	9.97	12.30	15.00	18.00	21.50	23.00
EWG-D2SC065E-XX	D2SC-65E	6.50	5.60	7.37	9.43	11.80	14.60	17.75	21.40	25.60	27.50
EWG-D3SA075E-XX	D3SA-75E	7.50	6.29	8.38	10.85	13.80	17.20	21.20	25.70	30.90	33.20
EWG-D3SC100E-XX	D3SC-100E	10.00	8.01	10.50	13.45	16.90	20.90	25.40	30.70	36.60	39.20
EWG-D3SS150E-XX	D3SS-150E	15.00	11.35	14.65	18.55	23.10	28.30	34.40	41.30	49.20	52.70
EWG-D4SA200E-XX	D4SA-200E	20.00	11.25	14.95	19.30	24.40	30.40	37.20	45.10	54.00	57.80
EWG-4MA022E-XX	4MA-22E	22.00	14.30	18.65	23.60	29.40	36.00	43.50	52.20	62.00	66.20
EWG-4MH025E-XX	4MH-25E	25.00	16.65	21.60	27.50	34.30	42.20	51.30	61.70	73.60	78.80
EWG-4MI030E-XX	4MI-30E	30.00	19.35	24.90	31.20	38.50	46.80	56.30	67.10	79.50	84.80
EWG-4MJ033E-XX	4MJ-33E	33.00	21.40	27.50	34.60	42.80	52.40	63.40	76.00	90.40	96.60
EWG-4MK035E-XX	4MK-35E	35.00	24.00	30.80	38.80	48.10	58.90	71.30	85.60	102.00	109.00
EWG-4MI040E-XX	6MI-40E	40.00	28.90	37.10	46.70	57.80	70.80	85.80	103.00	122.50	131.00
EWG-6MJ045E-XX	6MJ-45E	45.00	32.30	41.60	52.50	65.00	79.50	96.10	115.00	136.50	146.00
EWG-6MK050E-XX	6MK-50E	50.00	28.70	37.50	47.60	59.40	72.90	88.60	106.50	127.00	136.00

Capacity Data At 20°C Return Gas Temperature, 0K Subcooling * For cooling capacity information at variable operating conditions please contact Emerson sales office

SALES OFFICES:

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Gurgaon

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COLD CHAIN CENTERS

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