Semi-Hermetic Condensing Units DK/DL

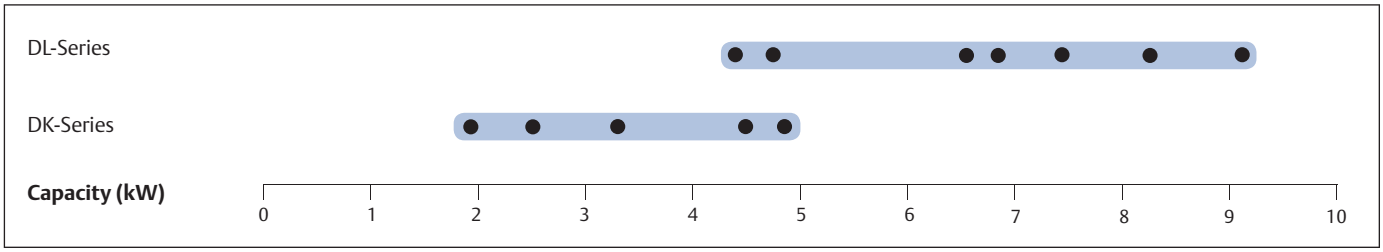
Copeland® air-cooled indoor condensing units for medium temperature and low temperature applications.

Long term engineering and manufacturing experience have led to these condensing units with reed valve technology compressors. Their excellent quality and reliability is traditionally well known in the refrigeration industry.

This series of condensing units is equipped with single fan or twin fans which allows for very compact dimensions. The wide range of models offers solutions for most applications including operation in extreme conditions like high evaporation temperatures and high ambient temperatures.

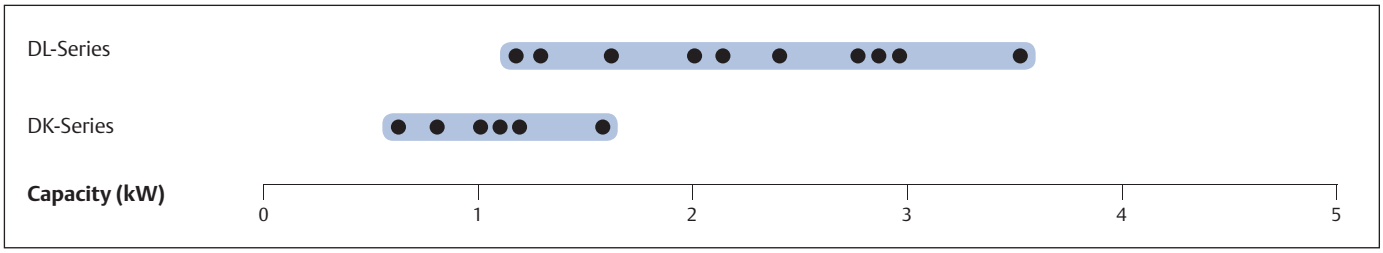
Semi-Hermetic Condensing Unit DK/DL

Semi-Hermetic DK/DL Condensing Units Medium Temperature Line-up



Conditions EN13215 R404A: Evaporating Temperature -10°C, Suction Gas Return 20°C, Subcooling 0K

Semi-Hermetic DK/DL Condensing Units Low Temperature Line-up



Conditions EN13215 R404A: Evaporating Temperature -45°C, Suction Gas Return 20°C, Subcooling 0K

Features and Benefits

- Standard equipment: compressor, condenser with thermally protected fan(s), discharge line with flexible pipe loop or vibration absorber, liquid receiver with shut-off-valve, HP/LP switch with automatic reset
- Suitable for a broad range of refrigerants: R404A, R507, R134a, R407C, R22
- Wide range of quality accessories
- Proven reliability

Maximum Allowable Pressures (PS)

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

Technical Overview

R404A Models	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 @ 10 m - d(BA)***
								1 Ph*	3 Ph**	1 Ph*	3 Ph**	1 Ph*	3 Ph**	
B8-KM-5X	3.1	1	85	5/8	1/2	560/570/396	56	CAG		5		24		
B8-KM-7X	3.1	1	85	1/2	1/2	560/570/396	58		EWL		2		12	
B8-KJ-10X	3.1	1	85	5/8	1/2	560/570/396	58	CAG	EWL	7	3	32	16	39
B8-KJ-7X	3.1	1	85	5/8	1/2	560/570/396	58	CAG	EWL	6	2	35	12,0	
B8-KSJ-10X	3.1	1	85	5/8	1/2	560/570/396	58	CAG	EWL	7	3	32	16	
D8-KSJ-15X	3.7	1	110	7/8	1/2	560/570/446	62	CAG	EWL	9	3	43	20	46
B8-KL-15X	3.1	1	85	5/8	1/2	560/570/396	58	CAG	EWL	8	3	43	20	40
D8-KSL-20X	3.7	1	110	5/8	1/2	560/570/396	60		EWL		5		20	
H8-KSL-20X	7.5	1	235	5/8	1/2	735/680/533	60		EWL		5		20	
D8-LE-20X	3.7	1	110	7/8	1/2	560/715/446	97		EWL		6		38	
H8-LE-20X	7.5	1	235	7/8	1/2	735/680/533	108		EWL		6		38	
D8-LF-20X	3.7	1	110	7/8	1/2	560/715/446	98		EWL		5		38	
H8-LF-30X	7.5	1	235	7/8	1/2	735/680/533	108		EWL		7		53	49
H8-LJ-20X	7.5	1	235	7/8	1/2	735/680/533	103		EWL		6		38	
P8-LF-30X	7.5	2	220	1 1/8	1/2	950/640/633	127		EWL		7		53	48
H8-LJ-30X	7.5	1	235	7/8	1/2	735/680/533	108		EWL		8		53	49
P8-LJ-30X	7.5	2	220	7/8	1/2	950/640/633	127		EWL		8		53	48
H8-LL-30X	7.5	1	235	1 1/8	1/2	735/680/533	110		EWL		7		53	49
K9-LL-30X	7.5	2	220	1 1/8	1/2	950/640/454	134		EWL		7		53	47
H8-LL-40X	7.5	1	235	1 1/8	1/2	735/680/533	112		EWL		10		69	49
P8-LL-40X	7.5	2	220	1 1/8	1/2	950/640/633	128		EWL		10		69	48
H8-LSG-40X	7.5	1	235	1 1/8	1/2	735/680/533	116		EWL		9		69	
K9-LSG-40X	7.5	2	220	1 1/8	1/2	950/640/454	131		EWL		9		69	51

* 1 Ph: 230V/ 50Hz
** 3 Ph: 380-420V/ 50Hz
*** @ 10 m: sound pressure level at 10m distance from the compressor, free field condition

Capacity Data

R404A	Ambient Temperature +32°C						
	Cooling Capacity (kW)						
	Evaporation Temperature (°C)						
Model	-45	-35	-30	-20	-10	-5	5
B8-KM-5X	0.3	0.6	0.8	1.3			
B8-KM-7X	0.3	0.6	0.8	1.3	1.9	2.2	3.0
B8-KJ-10X	0.4	0.8	1.1	1.7	2.4	2.8	3.6
B8-KJ-7X	0.4	0.8	1.1	1.7			
B8-KSJ-10X	0.6	1.1	1.3	1.8			
D8-KSJ-15X	0.6	1.1	1.4	2.2	3.2	3.8	
B8-KL-15X	0.7	1.2	1.5	2.3			
D8-KSL-20X	0.9	1.6	2.0	3.1	4.3		
H8-KSL-20X	0.9	1.7	2.2	3.3	4.8	5.7	
D8-LE-20X		1.2	1.7	2.9	4.3	5.0	
H8-LE-20X		1.3	1.9	3.2	4.8	5.8	7.8
D8-LF-20X	0.7	1.7	2.2	3.5			
H8-LF-30X	0.9	2.1	2.7	4.4	6.3	7.4	
P8-LF-30X	1.0	2.1	2.9	4.7	6.9	8.2	11.1
H8-LJ-20X	0.8	2.1	2.9				
H8-LJ-30X	1.1	2.3	3.0	4.7	6.8	7.9	
P8-LJ-30X	1.1	2.4	3.2	5.1	7.5	8.9	11.9
H8-LL-30X	1.2	2.7	3.6	5.7			
H8-LL-40X	1.4	2.8	3.6	5.6	8.1	9.4	
K9-LL-30X	1.2	2.7	3.6	5.7			
P8-LL-40X	1.4	2.9	3.9	6.2	9.1	10.8	
H8-LSG-40X	1.7	3.4	4.4	6.7			
K9-LSG-40X	1.7	3.4	4.4	6.7			

	Input Power (kW)						
	Evaporation Temperature (°C)						
Model	-45	-35	-30	-20	-10	-5	5
B8-KM-5X	0.5	0.6	0.6	0.8			
B8-KM-7X	0.4	0.6	0.7	0.8	1.0	1.1	1.3
B8-KJ-10X	0.5	0.8	0.9	1.1	1.4	1.5	1.8
B8-KJ-7X	0.6	0.8	0.9	1.1			
B8-KSJ-10X	0.8	1.0	1.2	1.5			
D8-KSJ-15X	0.7	1.0	1.1	1.4	1.8	1.9	
B8-KL-15X	0.9	1.1	1.3	1.6			
D8-KSL-20X	1.0	1.3	1.5	2.0	2.6		
H8-KSL-20X	1.1	1.5	1.7	2.1	2.6	2.8	
D8-LE-20X		1.1	1.3	1.7	2.2	2.5	
H8-LE-20X		1.2	1.4	1.9	2.3	2.5	3.0
D8-LF-20X	1.0	1.5	1.8	2.4			
H8-LF-30X	1.3	1.9	2.1	2.7	3.3	3.6	
P8-LF-30X	1.3	1.9	2.1	2.6	3.2	3.4	4.0
H8-LJ-20X	1.2	1.8	2.2				
H8-LJ-30X	1.4	2.0	2.4	3.0	3.8	4.2	
P8-LJ-30X	1.4	2.0	2.3	3.0	3.6	4.0	4.6
H8-LL-30X	1.5	2.2	2.7	3.6			
H8-LL-40X	1.7	2.4	2.8	3.7	4.7	5.3	
K9-LL-30X	1.5	2.2	2.6	3.6			
P8-LL-40X	1.7	2.4	2.8	3.6	4.5	5.0	
H8-LSG-40X	1.9	2.8	3.3	4.5			
K9-LSG-40X	1.9	2.8	3.3	4.5			

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

R134a	Cooling Capacity (kW)						
	Ambient Temperature: 32°C						
	Evaporating Temperature (°C)						
Models	-45	-35	-30	-20	-10	-5	5
B8-KM-5X				0.8	1.2	1.5	2.2
B8-KJ-7X				1.0	1.6	1.9	2.8
B8-KSJ-10X				1.2	1.9	2.4	3.4
B8-KL-15X				1.4	2.2	2.6	3.7
D8-KSL-15X				1.8	2.8	3.4	4.9
D8-KSL-20X				1.8	2.9	3.5	5.0
H8-KSL-20X				1.9	3.0	3.7	5.4
D8-LF-20X				2.2	3.6	4.4	6.2
H8-LJ-20X				2.7	4.3	5.2	7.5
H8-LL-30X				3.2	5.3	6.5	9.2
H8-LSG-40X				4.2	6.6	7.9	11.0

R134a	Power Input (kW)						
	Ambient Temperature: 32°C						
	Evaporating Temperature (°C)						
Models	-45	-35	-30	-20	-10	-5	5
B8-KM-5X				0.5	0.6	0.7	0.8
B8-KJ-7X				0.7	0.8	0.9	1.0
B8-KSJ-10X				0.8	0.9	1.0	1.2
B8-KL-15X				0.9	1.2	1.3	1.6
D8-KSL-15X				1.1	1.4	1.6	1.9
D8-KSL-20X				1.1	1.4	1.5	1.8
H8-KSL-20X				1.2	1.5	1.6	1.8
D8-LF-20X				1.4	1.7	1.9	2.3
H8-LJ-20X				1.8	2.2	2.4	2.8
H8-LL-30X				2.1	2.6	3.0	3.7
H8-LSG-40X				2.5	3.2	3.7	4.6

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

Capacity Data

R22	Ambient Temperature +32°C								Motor Capacity (kW)							
	Cooling Capacity (kW)															
	Evaporation Temperature (°C)								Evaporation Temperature (°C)							
Model	**-45**	**-35**	**-30**	**-20**	**-10**	**-5**	**5**	**Model**	**-45**	**-35**	**-30**	**-20**	**-10**	**-5**	**5**
B8-KM-5X	0.2	0.5	0.7	1.2	1.8	2.2		**B8-KM-5X**	0.4	0.5	0.6	0.7	0.9	1.0	
B8-KM-7X	0.2	0.5	0.7	1.2	1.8	2.2	3.0	**B8-KM-7X**	0.4	0.5	0.6	0.7	0.9	1.0	1.1
B8-KJ-10X		0.7	0.9	1.6	2.3	2.8	3.8	**B8-KJ-10X**		0.7	0.8	1.0	1.2	1.3	1.5
B8-KJ-7X	0.3	0.7	0.9	1.5	2.3	2.8		**B8-KJ-7X**	0.4	0.5	0.6	0.7	0.9	1.0	1.1
B8-KSJ-10X	0.5	0.9	1.2	1.9	2.8	3.3		**B8-KSJ-10X**	0.6	0.9	1.0	1.2	1.6	1.8	
D8-KSJ-15X		1.0	1.3	2.1	3.2	3.8	5.1	**D8-KSJ-15X**		0.9	1.0	1.2	1.5	1.6	1.8
B8-KL-15X	0.6	1.1	1.4	2.2				**B8-KL-15X**	0.7	1.0	1.1	1.4			
D8-KSL-20X		1.4	1.8	2.9	4.3			**D8-KSL-20X**		1.2	1.4	1.8	2.2		
H8-KSL-20X		1.5	1.9	3.1	4.6	5.5		**H8-KSL-20X**		1.3	1.5	1.9	2.2	2.4	
D8-LE-20X		1.2	1.6	2.8	4.4	5.2	7.3	**D8-LE-20X**		1.2	1.4	1.8	2.2	2.4	2.9
H8-LE-20X		1.2	1.7	3.0	4.7	5.7	8.1	**H8-LE-20X**		1.3	1.5	1.9	2.3	2.4	2.8
D8-LF-20X	0.8	1.7	2.3	3.8				**D8-LF-20X**	1.1	1.6	1.8	2.4			
H8-LF-30X		1.7	2.4	4.1	6.3	7.5	10.3	**H8-LF-30X**		1.7	1.9	2.4	3.0	3.3	3.8
P8-LF-30X		1.8	2.5	4.3	6.7	8.0	11.2	**P8-LF-30X**		1.7	1.9	2.4	2.9	3.1	3.5
H8-LJ-20X	0.9	2.0	2.8	4.7				**H8-LJ-20X**	1.3	1.8	2.1	2.8			
H8-LJ-30X		2.0	2.7	4.6	7.0	8.3	11.2	**H8-LJ-30X**		1.8	2.1	2.8	3.4	3.8	4.4
P8-LJ-30X		2.1	2.9	4.9	7.5	9.0	12.3	**P8-LJ-30X**		1.8	2.1	2.7	3.3	3.6	4.1
H8-LL-30X	1.3	2.6	3.5	5.7				**H8-LL-30X**	1.6	2.2	2.6	3.4			
H8-LL-40X		2.6	3.5	5.7	8.5	10.0		**H8-LL-40X**		2.3	2.6	3.4	4.2	4.7	
K9-LL-30X	1.3	2.7	3.5	5.8				**K9-LL-30X**	1.6	2.2	2.6	3.4			
P8-LL-40X		2.7	3.7	6.1	9.2	10.9	14.7	**P8-LL-40X**		2.2	2.6	3.3	4.0	4.5	5.3
H8-LSG-40X	1.8	3.5	4.6	7.1				**H8-LSG-40X**	2.1	3.0	3.5	4.5			
K9-LSG-40X	1.8	3.5	4.6	7.1				**K9-LSG-40X**	2.1	3.0	3.4	4.4			

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