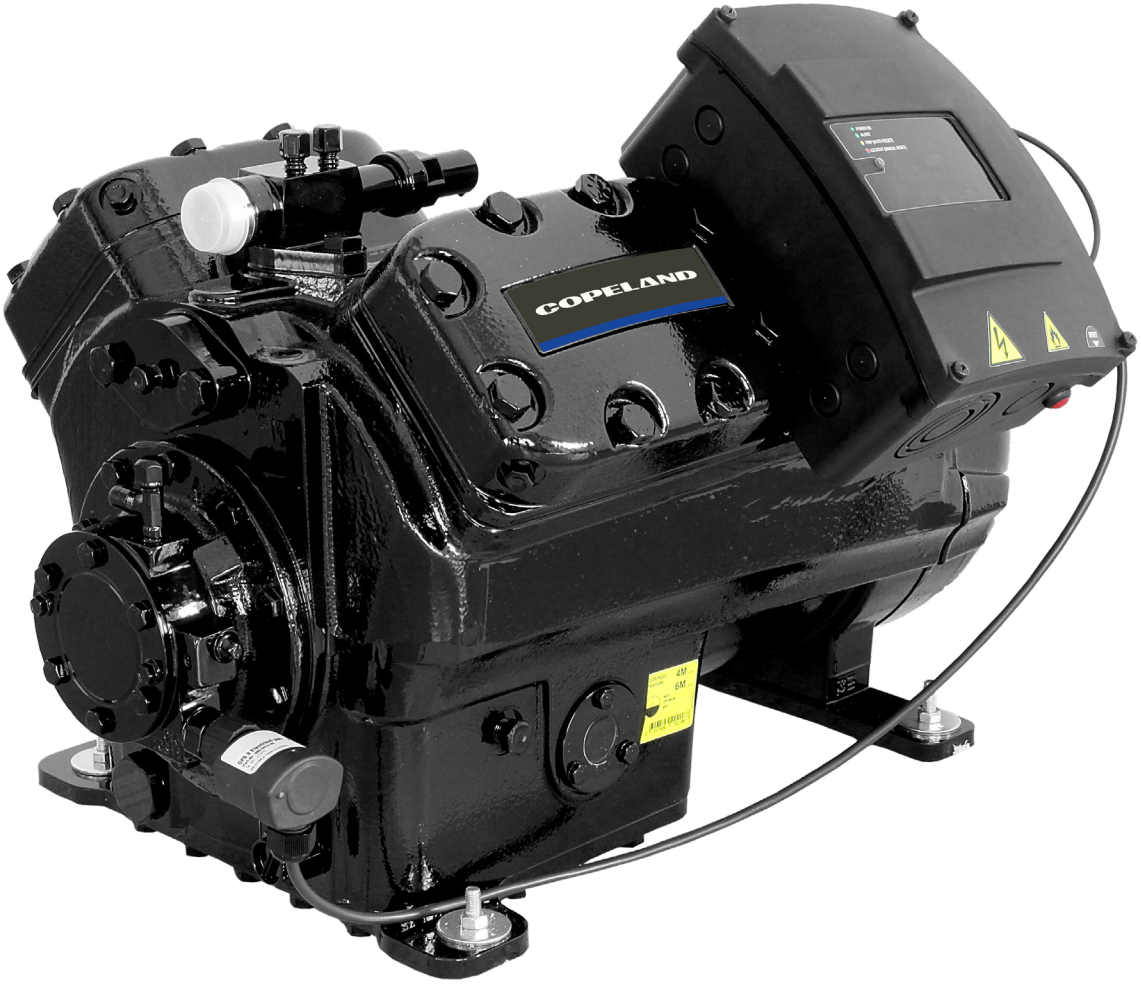
Stream semi-hermetic compressor series

Designed to deliver best-in-class performance



COPELAND
Engineered for Sustainability

Copeland Stream compressors are a line of 4 and 6 cylinder semi-hermetic compressors. The series provides best in class performance for today's HFCs, HFO blends with lower-GWP values, and natural refrigerants, significantly reducing the cost of operation and environmental impact compared to competing products.

With advanced protection and diagnostics features for system reliability, reduced service costs and increased equipment uptime, the Copeland Stream series is built to last in today's modern changing world.

The Stream series features an extended model line-up...

- Range of 8 models from 62 to 153 m^3/h for A1 HFC/HFOs with lower GWP
- Availability with wide range of refrigerants: R448A, R449A, R407A/F/C, R513A, R450A, R134a and R404A
- Range of 9 models for CO_2 transcritical and 6 models for CO_2 subcritical applications requiring high standstill pressures above 60bar – see separate DSH120 leaflet

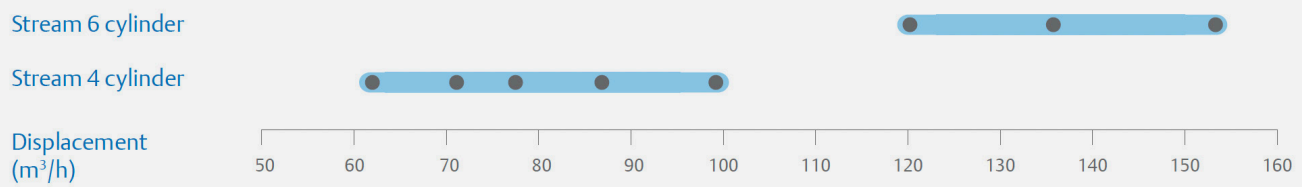
... With impressive technical highlights

- Best-in-class seasonal efficiencies, up to 15% higher than semi-hermetic reciprocating compressors known in the market
- Reduced sound level for quiet operation up to 7dBA
- Reduced dimensions and weight by up to 45 kg
- Wide operating envelope, one model fits all refrigeration applications, medium and low temperature
- Availability of two motor versions per displacement
- No cooling fan required for low temperature (0°C suction gas return temperature) to keep applied cost low
- Extremely low condensing temperatures for increased system efficiency
- Copeland compressor electronics technology providing advanced protection & diagnostics to ensure long compressor lifetime
  - Protection and sensing devices pre-installed to reduce applied system cost
  - Current sensor allowing for individual compressor power monitoring to stay on top of energy costs
  - Integrated status LEDs for local communication via colour and flash codes
- Remote communication via Modbus® for faster service
- For Copeland compressor electronics, see separate leaflet for full details (DSH121)
- Availability of the new demand cooling system for 4 and 6 cylinder Stream compressors to cover low GWP refrigerants for low temperature applications

All Stream compressors are released for two different options of capacity modulation:

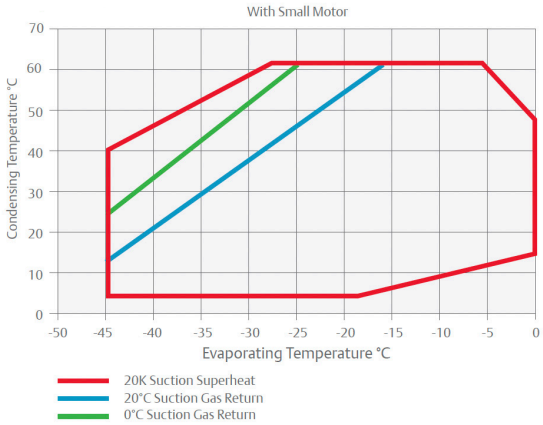
- Variable speed release from 30 to 70 Hz for capacity modulation related energy savings
- Continuous modulation from 50–100% (4-cylinder) and 33–100% (6-cylinder) ensuring a perfect match of capacity to refrigeration load

Stream line-up

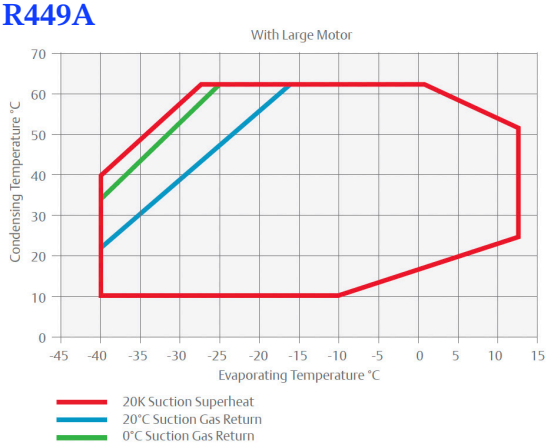


Operating envelopes Stream series

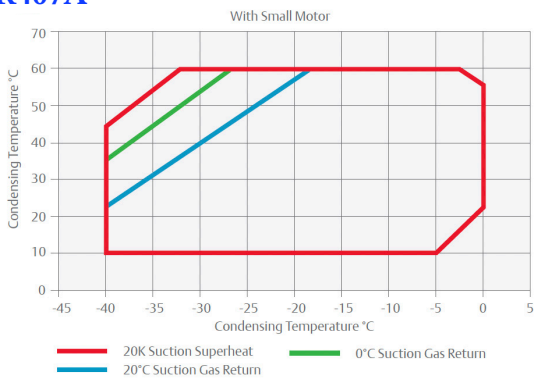
R448A

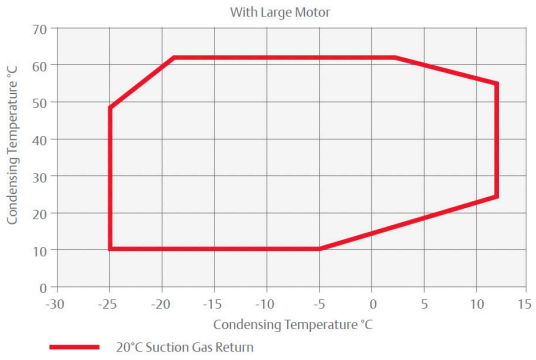


R449A

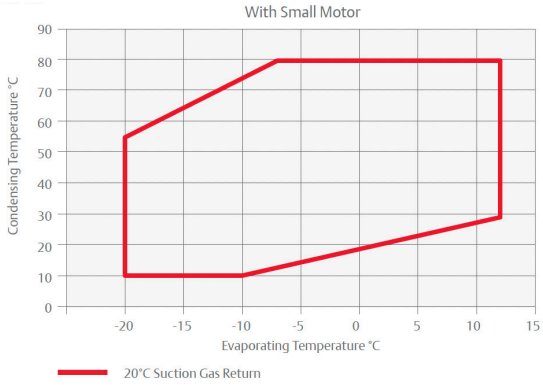


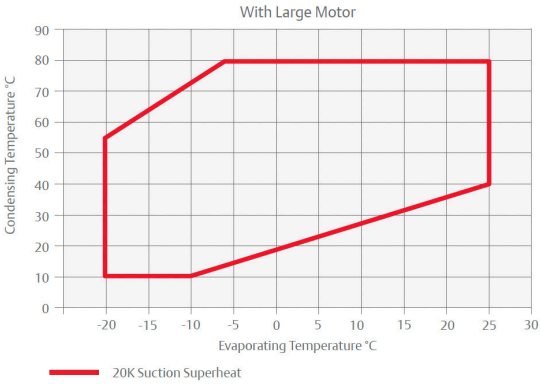
R407A



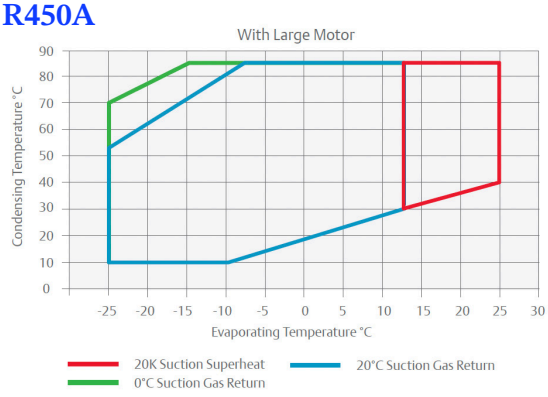


R134a

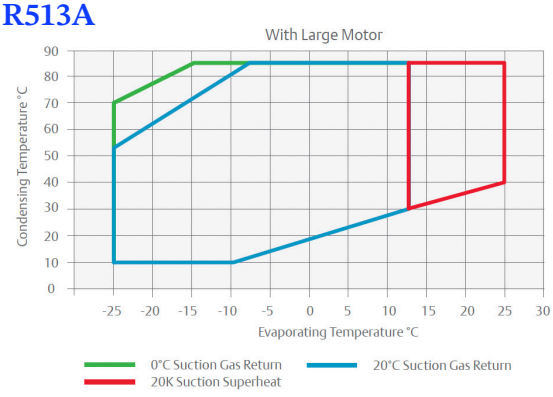




R450A



R513A



Technical overview Stream

Model	Nominal horsepower (hp)	Displacement (m^3/h)	Displacement (m^3/h)													Low temperature						Weight (kg)	Footprint (mm x mm)
			Cooling capacity (kW)							COP							Cooling capacity (kW)			COP				
			R404A*	R134a*	R407F*	R407A*	R448A/ R449A*	R450A*	R513A*	R404A*	R134a*	R407F*	R407A*	R448A/ R449A*	R450A*	R513A*	R404A**	R407F**	R448A/R449A**	R404A**	R407F**	R448A/R449A**		
4MF-13	13	62	31.6	18.9	28.8	28.8	28.0	16.8	20.8	2.3	2.5	2.4	2.3	2.2	2.5	2.6	8.9	8.0	8.3	1.2	1.2	1.3	177	381 x 305
4MA-22	22	62	32.7	19.9	30.1	30.1	31.8	16.7	20.9	2.4	2.6	2.5	2.5	2.5	2.5	2.6	8.7		7.9	1.2	1.8	1.3	177	
4ML-15	15	71	38.4	22.9	34.9	35.3	36.1	20.0	24.1	2.3	2.5	2.4	2.4	2.4	2.5	2.5	11.3	10.1	10.6	1.3	1.3	1.4	180	
4MH-25	25	71	38.5	22.9	35.3	35.1	36.2	19.0	23.8	2.4	2.5	2.5	2.4	2.4	2.4	2.5	10.3		9.6	1.2	1.8	1.3	187	
4MM-20	20	78	42.0	25.2	38.7	38.7	39.4	21.7	26.5	2.3	2.6	2.4	2.4	2.4	2.5	2.5	12.9	11.2	11.9	1.3	1.3	1.4	182	
4MI-30	30	78	42.8	25.3	38.6	39.1	41.0	20.9	26.7	2.4	2.6	2.5	2.4	2.5	2.4	2.6	12.2		10.9	1.3	1.8	1.3	188	
4MT-22	22	88	47.6	28.3	43.4	43.4	45.1	22.8	29.0	2.4	2.6	2.5	2.4	2.4	2.7	2.5	13.7		12.3	1.3	1.8	1.3	190	
4MJ-33	33	88	47.6	28.3	43.4	43.4	45.1	22.8	29.0	2.4	2.6	2.5	2.4	2.4	2.7	2.5	13.7		12.3	1.3	1.8	1.3	190	
4MU-25	25	99	53.1	31.7	47.2	47.2	49.4	26.6	32.9	2.3	2.5	2.4	2.3	2.3	2.4	2.4	15.9	14.4	14.5	1.2	1.3	1.4	186	
4MK-35	32	99	53.5	31.8	48.8	48.8	50.7	26.7	32.4	2.3	2.5	2.4	2.4	2.4	2.4	2.4	15.5		13.9	1.2	1.7	1.3	202	
6MM-30	27	120	64.2	38.2	57.5	57.5	59.0	32.7	39.9	2.3	2.5	2.4	2.3	2.3	2.4	2.4	19.4	17.6	17.8	1.2	1.3	1.4	215	
6MI-40	35	120	64.6	37.4	59.7	59.7	61.9	32.3	38.5	2.3	2.4	2.5	2.4	2.5	2.4	2.4	18.5		17.3	1.2	1.7	1.3	219	
6MT-35	32	135	72.4	43.1	66.0	66.0	65.3	36.9	45.9	2.3	2.5	2.4	2.3	2.3	2.4	2.7	21.8	20.2	20.0	1.3	1.3	1.4	221	
6MJ-45	40	135	72.4	42.4	66.3	66.3	69.1	36.4	44.9	2.3	2.5	2.4	2.4	2.4	2.5	2.5	21.1		19.8	1.2	1.7	1.4	223	
6MU-40	40	153	81.4	47.5	77.5	73.1	76.3	42.1	49.1	2.3	2.5	2.4	2.3	2.4	2.5	2.4	24.2	21.0	22.5	1.2	1.2	1.4	225	
6MK-50	50	153	80.9	45.7	79.1	74.0	76.4	39.5	48.3	2.3	2.3	2.4	2.4	2.4	2.3	2.4	23.0		21.4	1.2	1.7	1.3	230	

* Evaporating -10°C, condensing 45°C, suction gas return 20°C, subcooling 0K

** Evaporating -35°C, condensing 40°C, superheat 20K, subcooling 0K

4 DSH117-EN-1902

For more details, see **copeland.com/en-gb**

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