

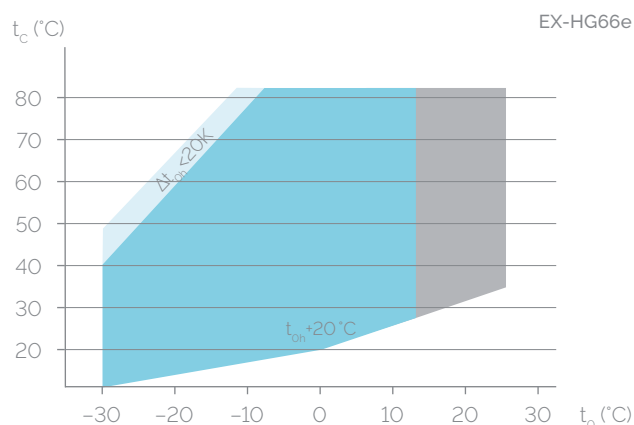
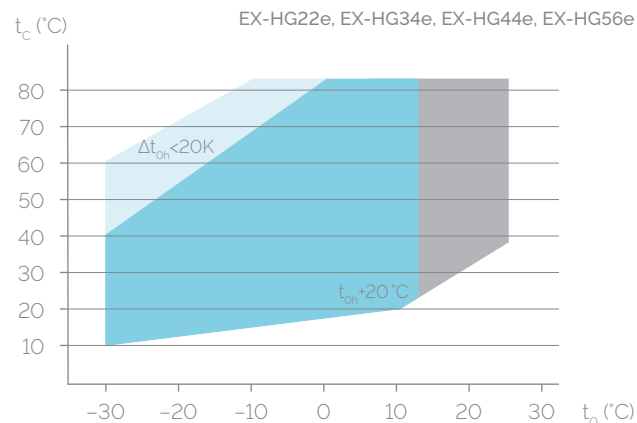
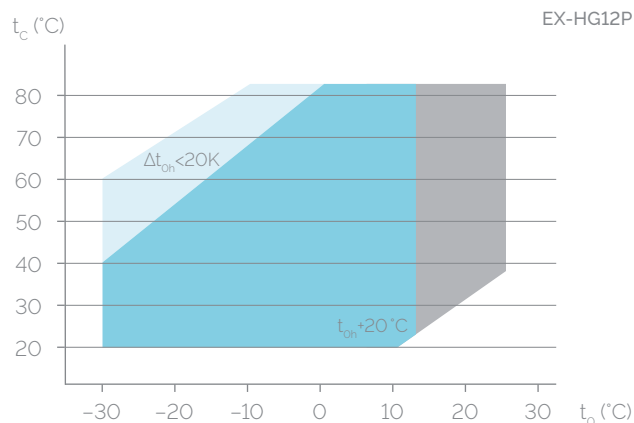
EX-HG, EX-HG... HC

Type	Number of cylinders	Displacement	Electrical data				Weight	Connections ⁵⁾		Oil-charge
		50 / 60 Hz (1.450 / 1.740 rpm)	Volt- age 1)	Max. working current ²⁾	Max. pow- er consump- tion ²⁾	Starting current (rotor locked)		Discharge line DV	Suction line SV	
		m ³ / h		A	kW	A		kg	mm inch	
			PW 1+2*		PW1 / PW 1+2*					
EX-HG44e/475-4 (HC)	4	41.30 / 49.60	4)	19.0	11.0	65 / 109	164.0	28 1 ¹ / ₈	35 1 ³ / ₈	2.3
EX-HG44e/475-4 S (HC)	4	41.30 / 49.60	4)	23.0	13.1	87 / 149	168.0	28 1 ¹ / ₈	35 1 ³ / ₈	2.3
EX-HG44e/565-4 (HC)	4	49.20 / 59.00	4)	22.0	13.2	65 / 109	164.0	28 1 ¹ / ₈	35 1 ³ / ₈	2.3
EX-HG44e/565-4 S (HC)	4	49.20 / 59.00	4)	26.0	15.6	101 / 174	170.0	28 1 ¹ / ₈	42 1 ⁵ / ₈	2.3
EX-HG44e/665-4 (HC)	4	57.70 / 69.20	4)	26.0	15.4	87 / 149	171.0	28 1 ¹ / ₈	42 1 ⁵ / ₈	2.3
EX-HG44e/665-4 S (HC)	4	57.70 / 69.20	4)	30.0	18.3	101 / 174	168.0	28 1 ¹ / ₈	42 1 ⁵ / ₈	2.3
EX-HG44e/770-4 (HC)	4	67.00 / 80.40	4)	30.0	17.8	101 / 174	168.0	28 1 ¹ / ₈	42 1 ⁵ / ₈	2.3
EX-HG44e/770-4 S (HC)	4	67.00 / 80.40	4)	35.0	21.4	101 / 174	168.0	28 1 ¹ / ₈	42 1 ⁵ / ₈	2.3
EX-HG56e/850-4 (HC)	6	73.80 / 88.60	4)	32.6	19.7	101 / 174	194.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG56e/850-4 S (HC)	6	73.80 / 88.60	4)	39.4	23.5	125 / 209	211.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG56e/995-4 (HC)	6	86.60 / 103.90	4)	38.9	23.2	125 / 209	208.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG56e/995-4 S (HC)	6	86.60 / 103.90	4)	46.4	27.7	149 / 246	211.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG56e/1155-4 (HC)	6	100.40 / 120.50	4)	46.9	28.0	149 / 246	212.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG56e/1155-4 S (HC)	6	100.40 / 120.50	4)	58.3	33.3	196 / 335	221.0	35 1 ³ / ₈	54 2 ¹ / ₈	2.7
EX-HG66e/1340-4 (HC)	6	116.50 / 139.80	4)	53.7	31.9	170 / 275	282.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/1340-4 S (HC)	6	116.50 / 139.80	4)	65.3	38.1	196 / 335	287.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/1540-4 (HC)	6	133.80 / 160.50	4)	62.1	37.2	170 / 275	280.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/1540-4 S (HC)	6	133.80 / 160.50	4)	75.0	44.4	196 / 335	285.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/1750-4 (HC)	6	152.20 / 182.60	4)	71.9	42.4	196 / 335	280.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/1750-4 S (HC)	6	152.20 / 182.60	4)	86.8	50.7	222 / 361	282.0	42 1 ⁵ / ₈	54 2 ¹ / ₈	4.4
EX-HG66e/2070-4 (HC)	6	180.00 / 216.00	4)	85.1	50.7	196 / 335	276.0	42 1 ⁵ / ₈	64 2 ⁵ / ₈	4.4
EX-HG66e/2070-4 S (HC)	6	180.00 / 216.00	4)	103.0	60.7	222 / 361	278.0	42 1 ⁵ / ₈	64 2 ⁵ / ₈	4.4

* PW - Part Winding, motors for part winding start 1 - 1st part winding 2 - 2nd part winding

Explanations

- 1) Tolerance (±10%) relates to the mean value of the voltage range. Other voltages and current types on request.
- 2) The specifications for max. power consumption apply for 50 Hz operation. For 60 Hz operation, the specifications have to be multiplied by the factor 1.2. The max. working current remains unchanged.
Take account of the max. operating current / max. power consumption when designing contactors, leads and fuses.
Switches: Service category AC3
- 3) 380-420 V Y - 3 - 50 Hz
440-480 V Y - 3 - 60 Hz
- 4) 380-420 V Y/Y - 3 - 50 Hz PW
440-480 V Y/Y - 3 - 60 Hz PW
PW - Part Winding, motors for part winding start (no start unloaders required)
Winding ratios:
EX-HG44e, EX-HG56e, EX-HG66e - 50% / 50%
- 5) For soldering connections



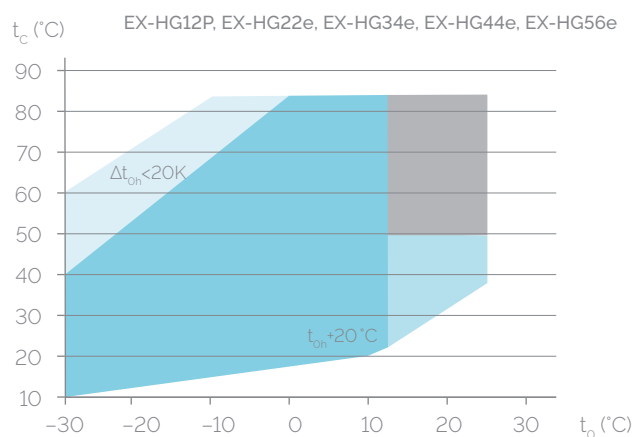
t_o Evaporating temperature (°C)
 t_c Condensing temperature (°C)
 Δt_{oh} Suction gas superheat (K)
 t_{oh} Suction gas temperature (°C)

Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

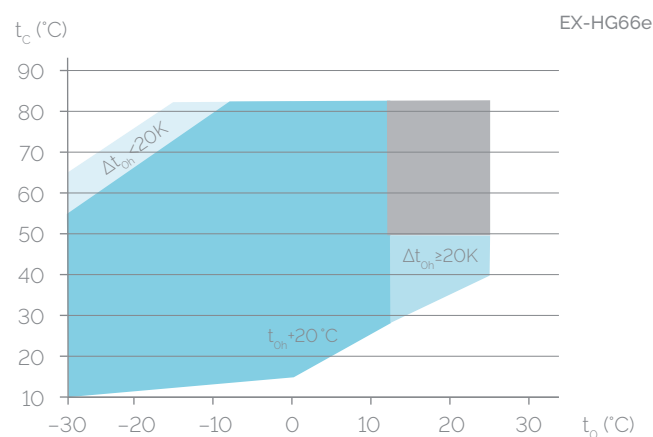
¹⁾ LP = low pressure, HP = high pressure

- Unlimited application range
- Motor version -S- (more powerful motor)
- Reduced suction gas temperature

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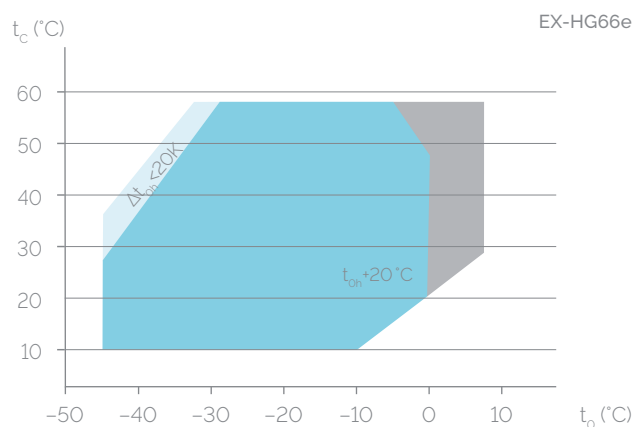
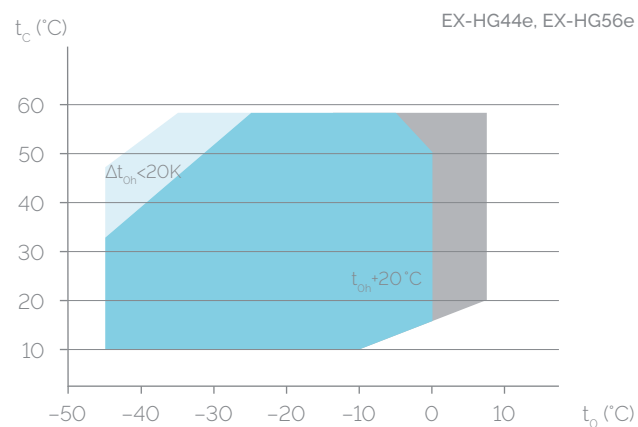
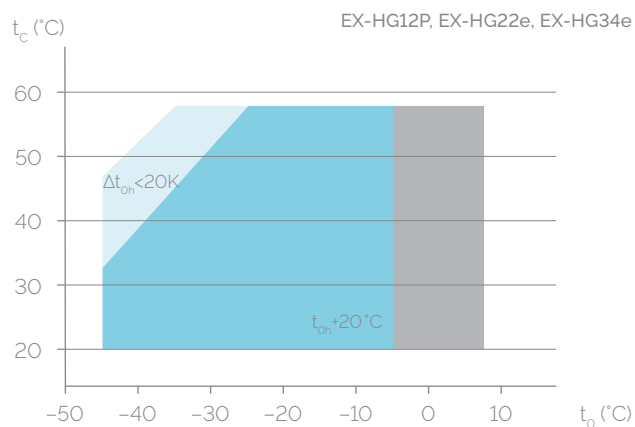
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Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

¹⁾ LP = low pressure, HP = high pressure

- Unlimited application range
- Motor version -S- (more powerful motor)
- Reduced suction gas temperature
- Required minimum superheating $\Delta t_{oh} \geq 20K$

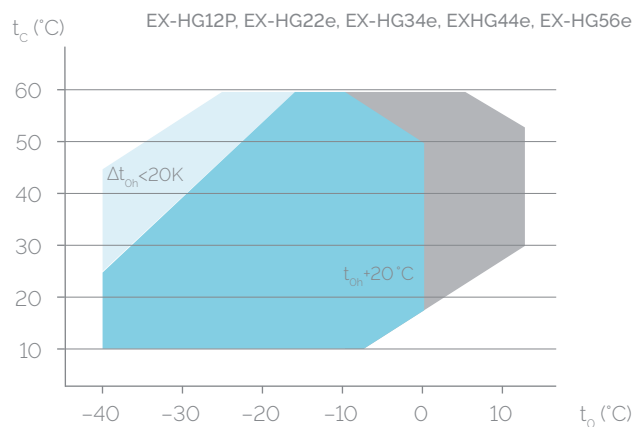


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 Δt_{oh} Suction gas superheat (K)
 t_{oh} Suction gas temperature (°C)

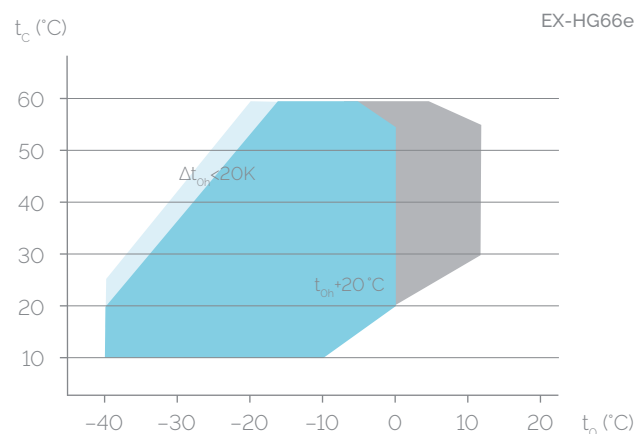
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¹⁾ LP = low pressure, HP = high pressure

- Unlimited application range
- Motor version -S- (more powerful motor)
- Reduced suction gas temperature



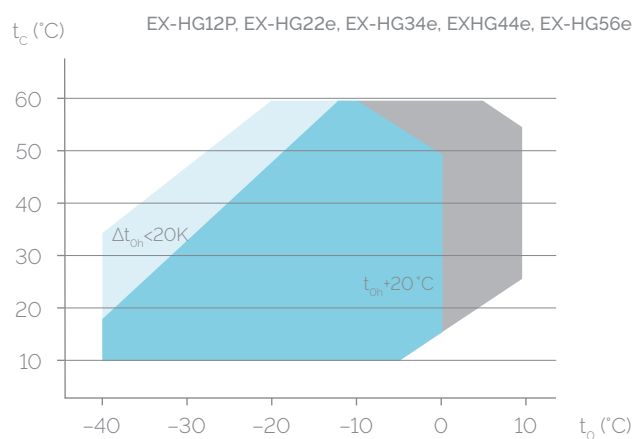
t_o Evaporating temperature (°C)
 t_c Condensing temperature (°C)
 Δt_{oh} Suction gas superheat (K)
 t_{oh} Suction gas temperature (°C)



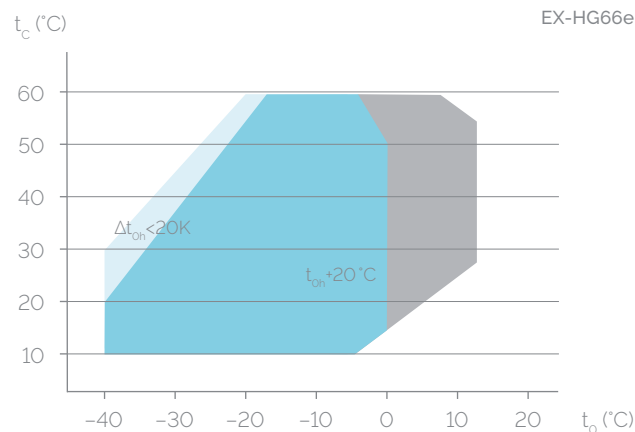
Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar
¹⁾ LP = low pressure, HP = high pressure

● Unlimited application range
 ● Motor version -S- (more powerful motor)
 ● Reduced suction gas temperature

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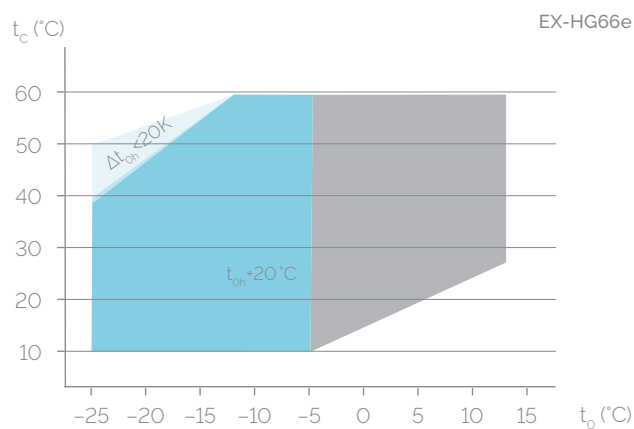
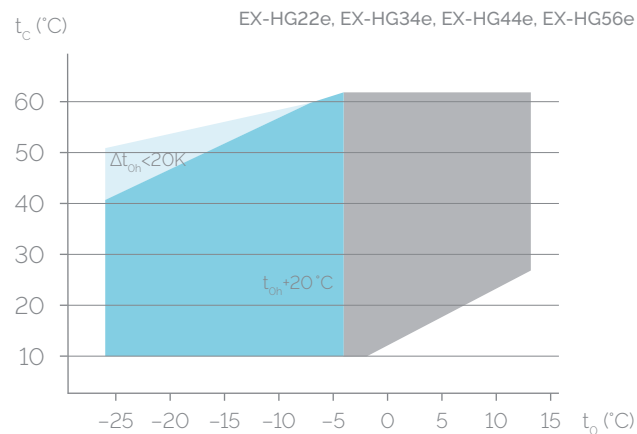
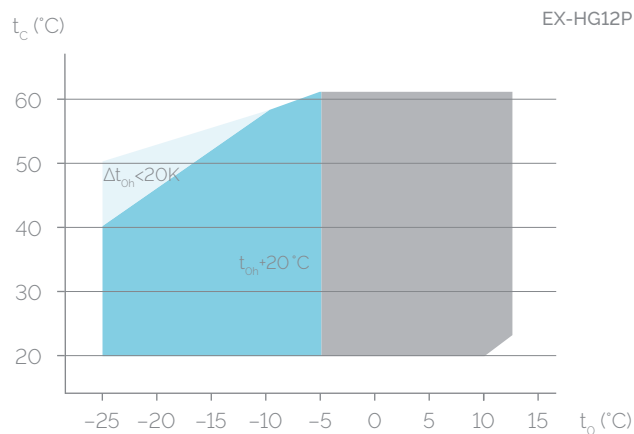


t_o Evaporating temperature (°C)
 t_c Condensing temperature (°C)
 Δt_{oh} Suction gas superheat (K)
 t_{oh} Suction gas temperature (°C)



Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar
¹⁾ LP = low pressure, HP = high pressure

● Unlimited application range
 ● Motor version -S- (more powerful motor)
 ● Reduced suction gas temperature



t_o Evaporating temperature (°C)

t_c Condensing temperature (°C)

Δt_{oh} Suction gas superheat (K)

t_{oh} Suction gas temperature (°C)

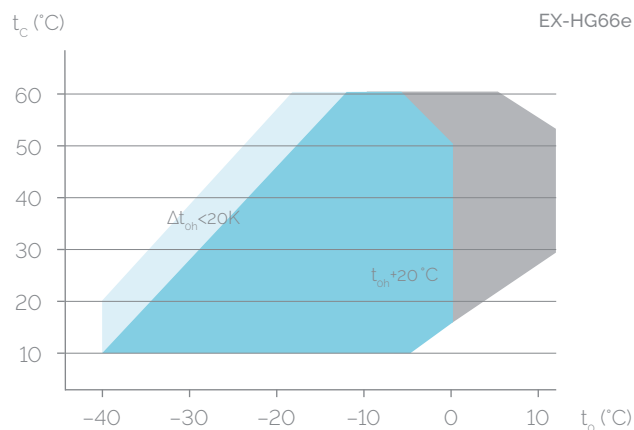
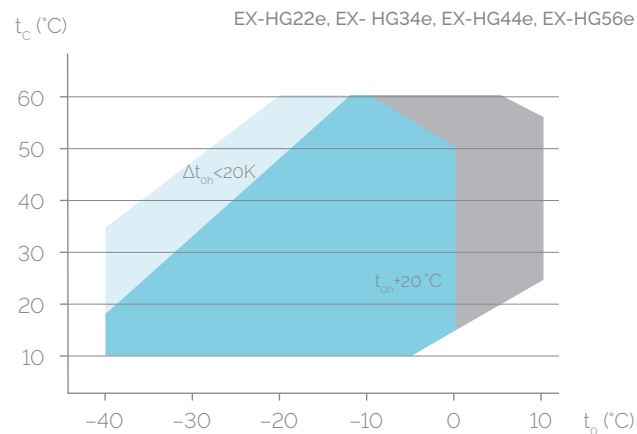
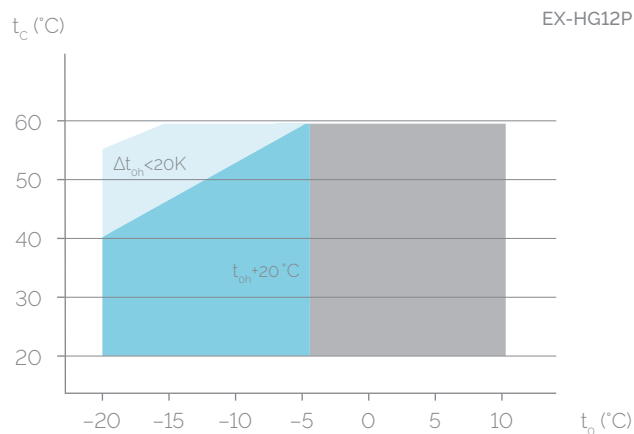
Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

¹⁾ LP = low pressure, HP = high pressure

● Unlimited application range

● Motor version -S- (more powerful motor)

● Reduced suction gas temperature



t_o Evaporating temperature (°C)

t_c Condensing temperature (°C)

Δt_{oh} Suction gas superheat (K)

t_{oh} Suction gas temperature (°C)

Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

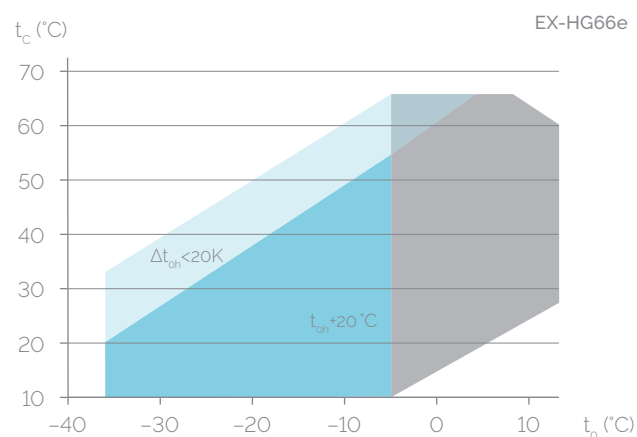
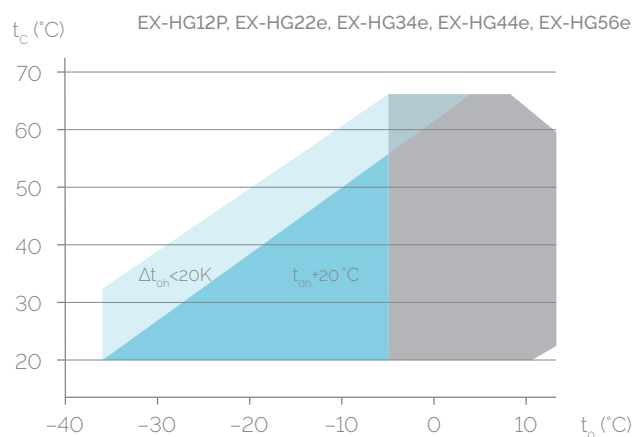
¹⁾ LP = low pressure, HP = high pressure

● Unlimited application range

● Motor version -S- (more powerful motor)

● Reduced suction gas temperature

R22



t_o Evaporating temperature (°C)

t_c Condensing temperature (°C)

Δt_{oh} Suction gas superheat (K)

t_{oh} Suction gas temperature (°C)

Max. permissible operating pressure (LP/HP)¹⁾: 19/28 bar

¹⁾ LP = low pressure, HP = high pressure

● Unlimited application range

● Motor version -S- (more powerful motor)

● Reduced suction gas temperature

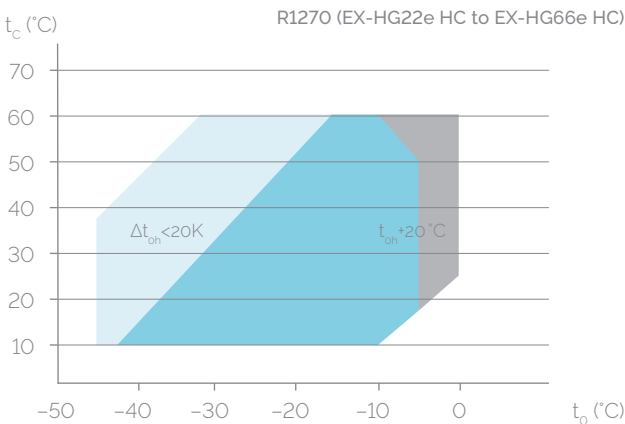
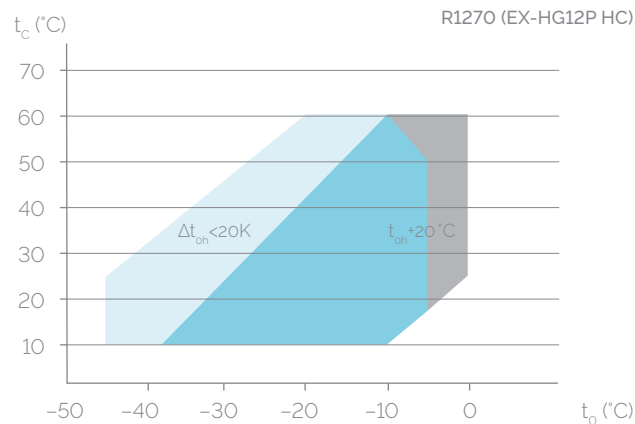
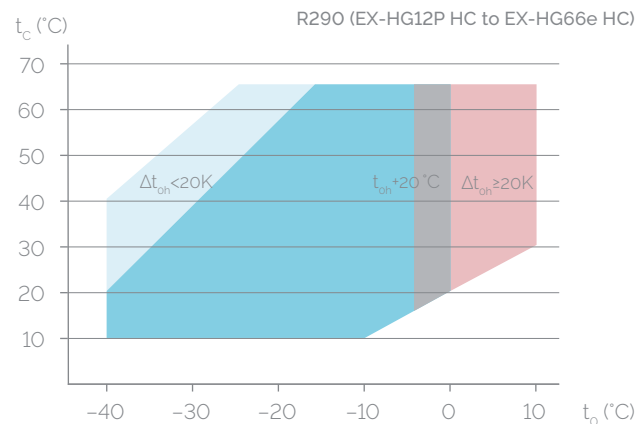
Notes

Operating limits

Compressor operation is possible within the limits shown on the application diagrams. Please note the colored areas. Compressor application limits should not be chosen for

design purposes or continuous operation.

Operating limits: hydrocarbons



Design for other ranges on request

The use of other hydrocarbons is permitted only following prior written approval from Bock

- t_o Evaporating temperature (°C)
- t_c Condensing temperature (°C)
- Δt_{oh} Suction gas superheat (K)
- t_{oh} Suction gas temperature (°C)

- Required minimum superheating $\Delta t_{oh} \geq 20$ K
- Motor version -S- (more powerful motor)
- Required minimum superheating $\Delta t_{oh} \geq 20$ K
- Required minimum superheating $\Delta t_{oh} \geq 20$ K, the suction gas temperature must be adapted accordingly
- Reduced suction gas temperature ($\Delta t_{oh} < 20$ K)

Max. permissible operating pressure (LP/HP) ¹⁾: 19/28 bar
¹⁾ LP = low pressure, HP = high pressure

Notes

Operating limits

The compressor can be operated within the operating limits shown in the diagram. The meaning of the color-shaded areas should be observed. A minimum superheating of $\Delta t_{oh} = 20$ K

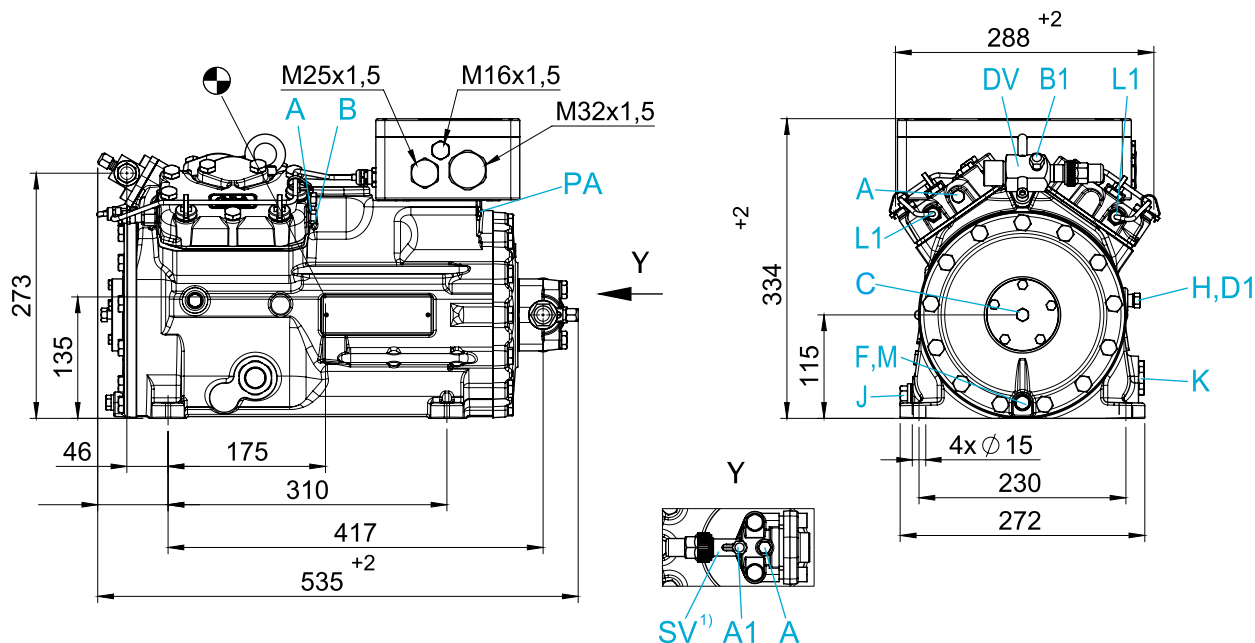
must be maintained for the dark-blue and gray application range. An internal IHX heat exchanger must be provided for this, if necessary. Thresholds should not be selected as the design point or the continuous operating point.

EX-HG34e

» EX-HG34e/215-4 » EX-HG34e/215-4 S » EX-HG34e/255-4 » EX-HG34e/255-4 S

EX-HG34e... HC

» EX-HG34e/315-4 » EX-HG34e/315-4 S » EX-HG34e/380-4 » EX-HG34e/380-4 S

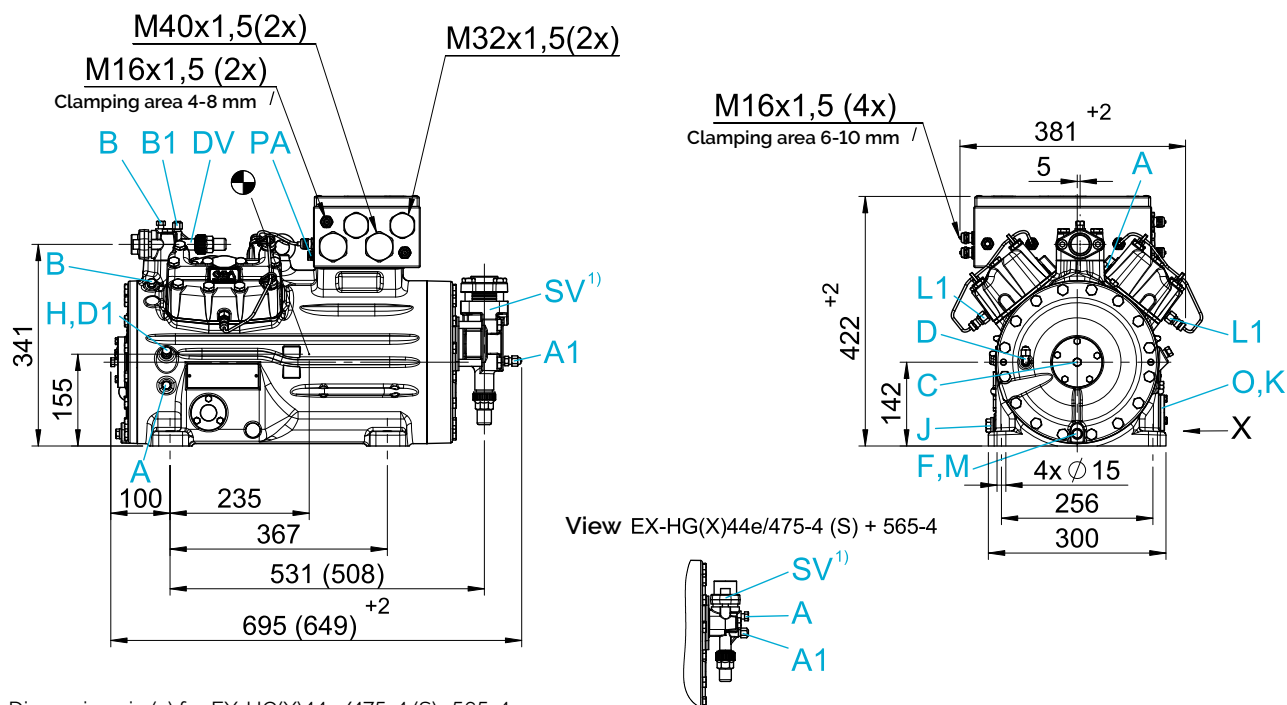


EX-HG44e

» EX-HG44e/475-4 » EX-HG44e/475-4 S » EX-HG44e/565-4 » EX-HG44e/565-4 S

EX-HG44e... HC

» EX-HG44e/665-4 » EX-HG44e/665-4 S » EX-HG44e/770-4 » EX-HG44e/770-4 S



Dimensions in () for EX-HG(X)44e/475-4 (S) + 565-4

Dimensions in mm

1) Position SV see table on page 29

● Center of gravity

For connections see page 30

Dimensions for anti-vibration pad, see page 29

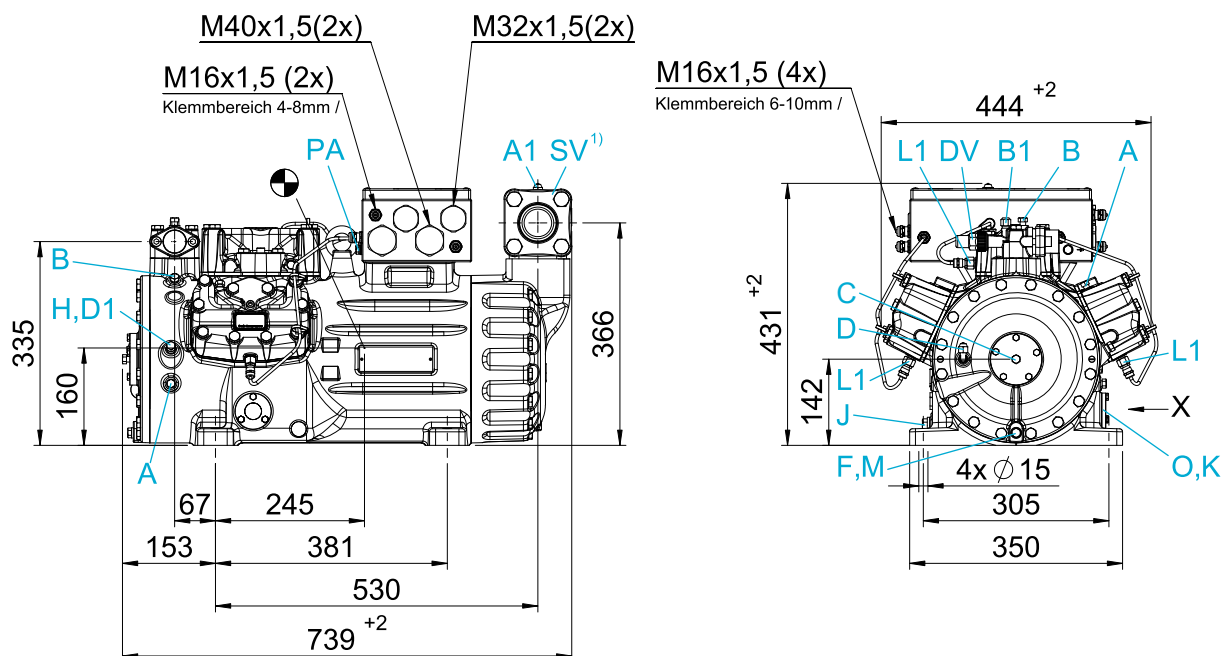
Dimensions for view X, see page 29

EX-HG56e

» EX-HG56e/850-4 » EX-HG56e/850-4 S » EX-HG56e/995-4

EX-HG56e...HC

» EX-HG56e/995-4 S » EX-HG56e/1155-4 » EX-HG56e/1155-4 S

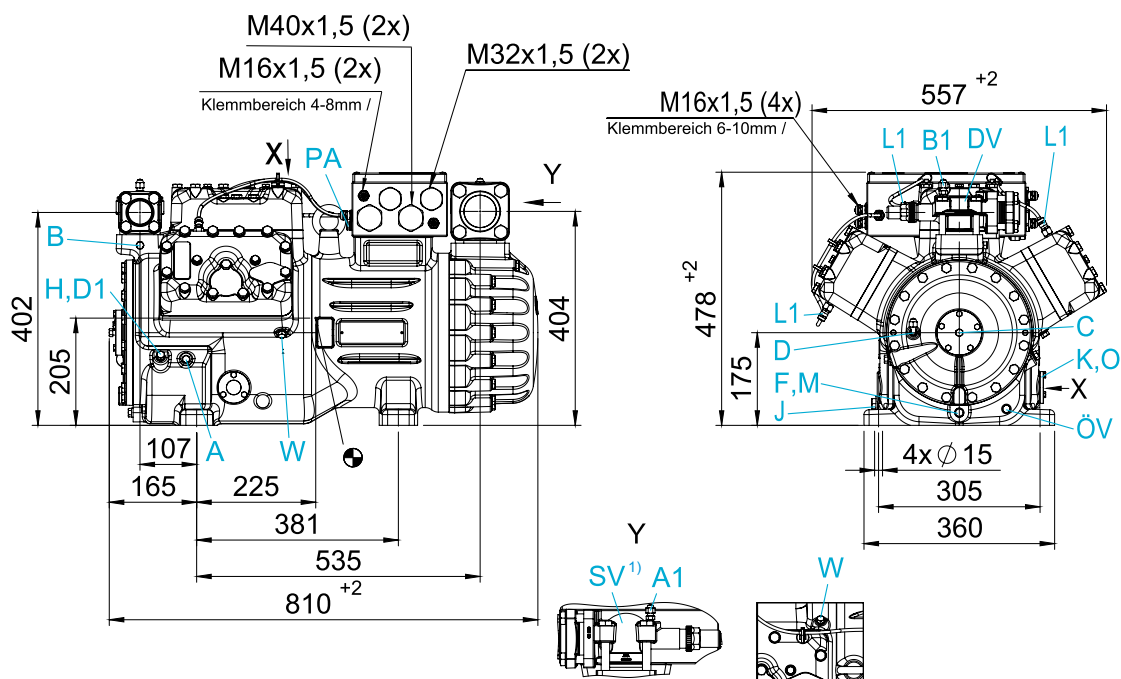


EX-HG66e

» EX-HG66e/1340-4 » EX-HG66e/1340-4 S » EX-HG66e/1540-4 » EX-HG66e/1540-4 S

EX-HG66e...HC

» EX-HG66e/1750-4 » EX-HG66e/1750-4 S » EX-HG66e/2070-4 » EX-HG66e/2070-4 S



Dimensions in mm

1) Position SV see table on page 29

Center of gravity

For connections see page 30

Dimensions for anti-vibration pad, see page 29

Dimensions for view X, see page 29