



Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model Mode	(2EC-6.2K) Refrigeration and Air conditioning	Suct. gas superheat Operating mode	10,00 K Subcritical
Refrigerant	R744	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Capacity control	100%
Liq. subc. (in condenser)	0 K	Useful superheat	100%

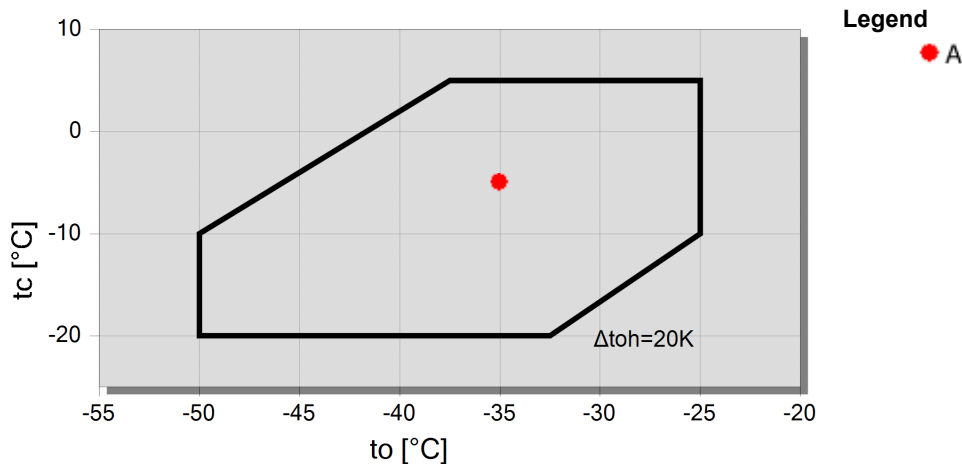
Result

Q [W]	Cooling capacity	COP [-]	COP/EER
Qu* [W]	Evaporator capacity	m [kg/h]	Mass flow
P [kW]	Power input	Op.	Operating mode
I [A]	Current	th [°C]	Discharge gas temp. w/o cooling
Qc [W]	Condenser Capacity (w. HX)		

tc	to	-25°C	-30°C	-35°C	-40°C	-45°C	-50°C	-55°C	-60°C
-20°C	Q [W]	--	--	23390	18497	14245	10569	--	--
	Qu* [W]			23390	18497	14245	10569		
	P [kW]			3,32	3,54	3,58	3,58		
	I [A]			6,25	6,53	6,58	6,59		
	Qc [W]			26546	21855	17642	13968		
	COP [-]			7,04	5,23	3,98	2,95		
	m [kg/h]			288	229	177,2	132,3		
	Op.			Standard	Standard	Standard	Standard		
	th [°C]			26,4	39,1	54,6	77,9		
-10°C	Q [W]	31019	25235	20165	15738	11893	8571	--	--
	Qu* [W]	31019	25235	20165	15738	11893	8571		
	P [kW]	3,92	4,37	4,63	4,70	4,60	4,34		
	I [A]	7,05	7,69	8,06	8,17	8,02	7,65		
	Qc [W]	34739	29385	24559	20203	16264	12696		
	COP [-]	7,92	5,78	4,36	3,35	2,58	1,97		
	m [kg/h]	410	335	269	211	160,2	116,2		
	Op.	Standard	Standard	Standard	Standard	Standard	Standard		
	th [°C]	28,8	39,7	52,9	69,3	90,5	119,4		
0°C	Q [W]	26643	21400	16817	12835	--	--	--	--
	Qu* [W]	26643	21400	16817	12835				
	P [kW]	6,07	6,26	6,25	6,07				
	I [A]	10,19	10,48	10,48	10,20				
	Qc [W]	32407	27346	22758	18603				
	COP [-]	4,39	3,42	2,69	2,11				
	m [kg/h]	386	311	245	188,3				
	Op.	Standard	Standard	Standard	Standard				
	th [°C]	56,8	70,6	87,6	109,4				

-- No calculation possible (see message in single point selection)
 *According to EN12900 (10K suction gas superheat, 0K liquid subcooling)

Application Limits 2EC-6.2K





Technical Data: (2EC-6.2K)

Dimensions and Connections

Drawing not found: C:\inetpub\wwwroot\WebSoftware\img\drawings\.jpg

Technical Data

Technical Data

Displacement (1450 RPM 50Hz)	11,36 m ³ /h
Displacement (1750 RPM 60Hz)	13,71 m ³ /h
No. of cylinder x bore x stroke	2 x 46 mm x 39,3 mm
Weight	98 kg
Max. pressure (LP/HP)	25 / 42 bar
Connection suction line	22 mm - 7/8"
Connection discharge line	16 mm - 5/8"
Oil type R744 (CO ₂)	BSE85K (Standard) BSE60K (Option)

Motor data

Motor voltage (more on request)	380-420V Y-3-50Hz
Max operating current	13.5 A
Starting current (Rotor locked)	62.2 A
Max. Power input	6.3 kW

Extent of delivery (Standard)

Motor protection	SE-B1
Enclosure class	IP65
Vibration dampers	Standard
Oil charge	2,00 dm ³

Available Options

Discharge gas temperature sensor	Option
Crankcase heater	0..120 W PTC (Option)

Sound measurement



Selection: Open Screw Compressors OS

Input Values

Compressor model	OSKA5361-K	Operating mode	Standard
Refrigerant	R717	Speed	2900 /min
Reference temperature	Dew point temp.	Useful superheat	100%
Liq. subc. (in condenser)	0 K	Additional cooling	Automatic
Suct. gas superheat	5,00 K	Max. discharge gas temp.	80,0 °C

Result

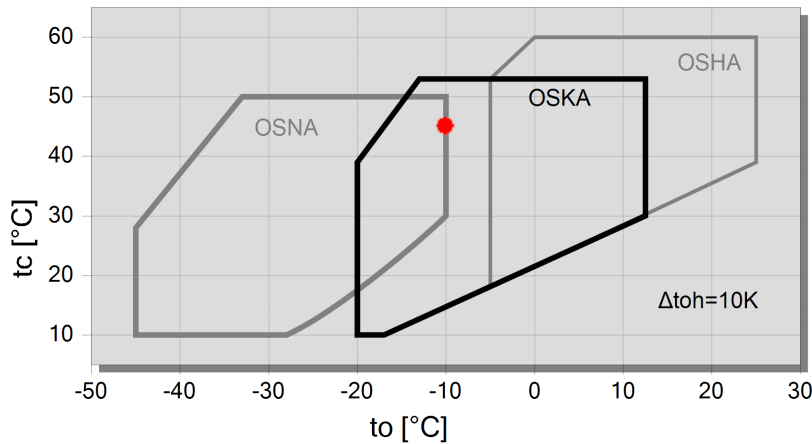
Q [W]	Cooling capacity	Qac [kW]	Additional cooling
P [kW]	Power input	tcu [°C]	Liquid temp.
COP [-]	COP/EER	pm [bar(a)]	ECO pressure
mLP [kg/h]	Mass flow LP	Qsc [kW]	sub cooler capacity (ECO)
mHP [kg/h]	Mass flow HP		

tc	to	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C
30°C	Q [W]	162875	136487	113431	93378	76021	61070	48250	--
	P [kW]	26,0	24,3	22,7	21,1	19,65	18,25	16,93	
	COP [-]	6,25	5,61	5,00	4,42	3,87	3,35	2,85	
	mLP [kg/h]	513	432	360	298	244	197,2	156,8	
	mHP [kg/h]	513	432	360	298	244	197,2	156,8	
	Qac [kW]	6,08	6,92	7,62	8,19	8,65	9,01	9,29	
	tcu [°C]	30,0	30,0	30,0	30,0	30,0	30,0	30,0	
	pm [bar(a)]	--	--	--	--	--	--	--	
	Qsc [kW]	--	--	--	--	--	--	--	
	40°C	Q [W]	153151	127981	105973	86817	70217	55897	--
P [kW]		31,1	29,1	27,2	25,4	23,7	22,0		
COP [-]		4,92	4,40	3,90	3,42	2,97	2,54		
mLP [kg/h]		503	422	352	290	235	188,6		
mHP [kg/h]		503	422	352	290	235	188,6		
Qac [kW]		13,79	13,94	14,05	14,10	14,09	14,00		
tcu [°C]		40,0	40,0	40,0	40,0	40,0	40,0		
pm [bar(a)]		--	--	--	--	--	--		
Qsc [kW]		--	--	--	--	--	--		
50°C		Q [W]	141425	117789	97100	79066	63408	--	--
	P [kW]	36,5	34,3	32,2	30,1	28,1			
	COP [-]	3,87	3,43	3,02	2,63	2,26			
	mLP [kg/h]	486	407	337	276	223			
	mHP [kg/h]	486	407	337	276	223			
	Qac [kW]	22,6	22,1	21,5	20,9	20,3			
	tcu [°C]	50,0	50,0	50,0	50,0	50,0			
	pm [bar(a)]	--	--	--	--	--			
	Qsc [kW]	--	--	--	--	--			

-- No calculation possible (see message in single point selection)

*According to EN12900 (5K suction gas superheat, 0K liquid subcooling)

Application Limits Standard OSKA5361



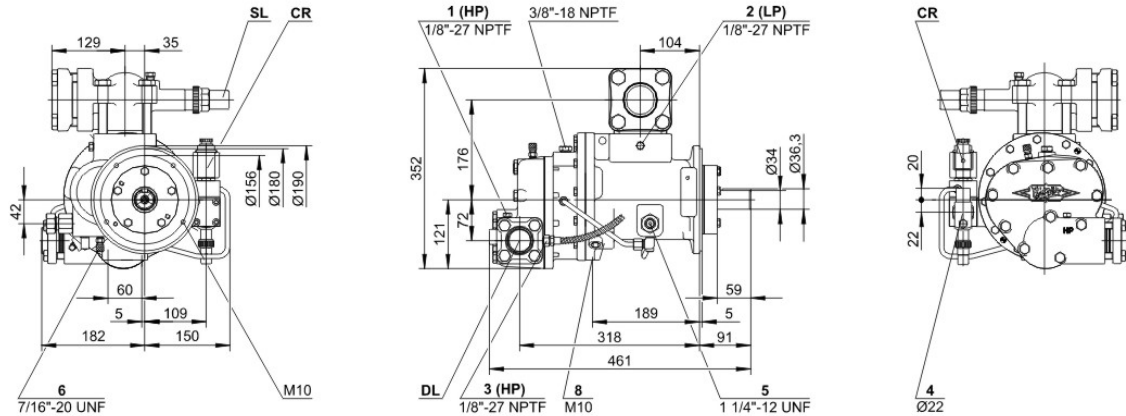
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Technical Data: OSKA5361-K

Dimensions and Connections



Technical Data

Technical Data

Displacement (2900 RPM 50 Hz)	118 m ³ /h
Displacement (3500 RPM 60 Hz)	142 m ³ /h
Allowed speed range	1450 .. 4500 min ⁻¹
Sens of rotation (compressor)	rechts / clockwise
Weight	65 kg
Max. pressure (LP/HP)	19 / 28 bar
Connection suction line	54 mm - 2 1/8"
Connection suction line (NH3)	DN 50
Connection discharge line	42 mm - 1 5/8"
Connection discharge line (NH3)	DN 40
Adapter for ECO (NH3)	DN 20 (Option)
Oil type NH3	Reniso KC68 , SHC 226E

Extent of delivery (Standard)

Suction shut-off valve	Standard
Pressure relief valve	Standard
Check valve	Standard
Oil injection kit	Standard
Built in oil filter	Standard
discharge gas temperature monitoring	SE-B2
Discharge gas temperature sensor	Standard
Protective charge	Standard

Available Options

Oil flow control	Option
Discharge shut-off valve	Option
ECO connection with shut-off valve	Option
Coupling housing	Option
Start unloading	Option
Capacity control	100-75% (Option)