



Bitzer OSKA 7471-K

Version 5.2.1

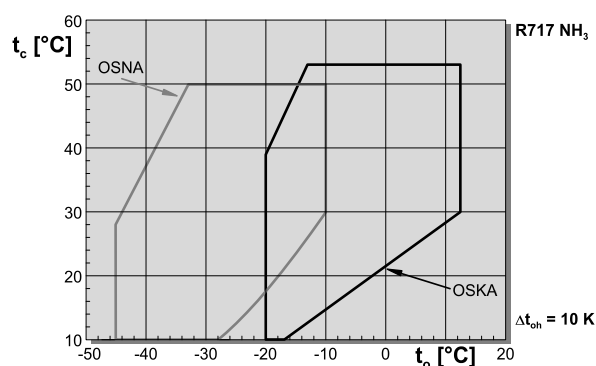
13-8-2015 / All data subject to change.

Performance table: Open Screw Compressors

Compressor model	OSKA7471-K	Suct. gas superheat	5K
Refrigerant	R717 [NH3]	Useful superheat	100%
Reference temperature	Dew point temp.	Speed	2900 /min
Operating mode	Standard	Capacity Control	100%
Liquid subcooling	0K		

tc [°C]	to [°C]	10	5	0	-5	-10	-15	-20
30	Qo[W]	354838	296638	245882	201854	163884	131343	103642
	P [kW]	52.8	49.0	45.7	42.8	40.2	37.8	35.4
	COP	6.72	6.05	5.38	4.71	4.07	3.48	2.93
	mLP [kg/h]	1117	938	781	645	526	424	337
	mHP [kg/h]	1117	938	781	645	526	424	337
	Qac [kW]	9.32	11.21	13.08	14.88	16.53	17.92	18.97
	tcu [°C]	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	pm [bar]							
	Qsc [kW]							
	40	Qo[W]	331389	276273	228195	186478	150486	119622
P [kW]		62.0	58.1	54.6	51.4	48.3	45.3	
COP		5.35	4.75	4.18	3.63	3.12	2.64	
mLP [kg/h]		1089	912	757	622	505	404	
mHP [kg/h]		1089	912	757	622	505	404	
Qac [kW]		24.4	25.4	26.4	27.2	27.8	28.1	
tcu [°C]		40.0	40.0	40.0	40.0	40.0	40.0	
pm [bar]								
Qsc [kW]								
50		Qo[W]	307086	255104	209730	170324	136286	--
	P [kW]	73.3	69.2	65.2	61.4	57.6		
	COP	4.19	3.69	3.21	2.77	2.37		
	mLP [kg/h]	1056	881	728	595	479		
	mHP [kg/h]	1056	881	728	595	479		
	Qac [kW]	43.0	42.7	42.3	41.7	40.9		
	tcu [°C]	50.0	50.0	50.0	50.0	50.0		
	pm [bar]							
	Qsc [kW]							

Application Limits (Standard)



Legend

to [°C]	Evaporating SST
tc [°C]	Condensing SDT
Qo[W]	Cooling capacity
P [kW]	Power input
COP	COP/EER
mLP [kg/h]	Mass flow LP
mHP [kg/h]	Mass flow HP
Qac [kW]	Additional cooling
tcu [°C]	Liquid temp.
pm [bar]	ECO pressure
Qsc [kW]	sub cooler capacity (ECO)

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

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