

BITZER Software v6.17.8 rev2725

11/08/1401 / All data subject to change.

Selection: Compact Screw Compressors CS // CSV

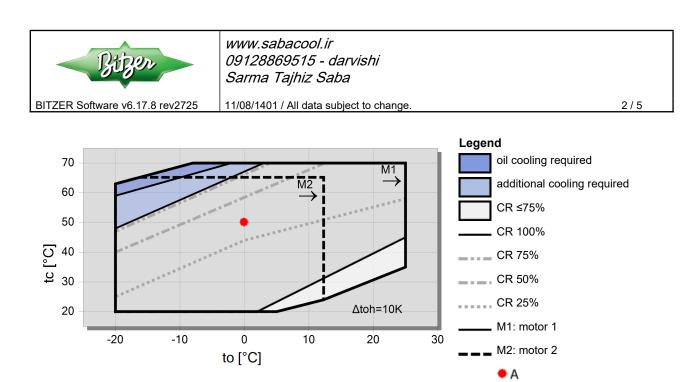
Input Values

Compressor model Refrigerant Reference temperature		CSH6563-60Y R134a Dew point temp.	Operating mode Power supply Capacity control		Standard 400V-3-50Hz 100%		
Liq. subc. (in condenser) Suct. gas superheat Useful superheat		0 K 10/00 K 100%	Additional cooling Max. discharge g	0	Automatic 110/0 °C		
Result							
Q [W] P [kW]	Cooling capacity Power input		mHP [kg/h] Qac [kW]	Mass flow HP Additional cooling			

e [W] P [kW] I [A] COP [-] mLP [kg/h]	Powe Curre COP/				Qac [kW] tcu [°C] pm [bar(a)] Qsc [kW]	A L E	Additional cooling Liquid temp. ECO pressure sub cooler capacity (ECO)	
tc	to	10°C	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C
30°C	Q [W] P [kW]	144892 20/8	120411 19/75	99206 18/89	80870 18/16	65017 17/53	51281 16/96	39302 16/42	
	I [A]	44/2	43/1	42/2	41/4	40/8	40/2	39/7	
	COP [-]	6/98	6/10	5/25	4/45	3/71	3/02	2/39	
	mLP [kg/h]	3040	2574	2161	1797	1474	1187	929	
	mHP [kg/h]	3040	2574	2161	1797	1474	1187	929	
	Qac [kW]								
	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] P [kW]	130883 24/7	108102 23/7	88401 22/9	71394 22/1	56714 21/4	44015 20/8	32958 20/1	
	I [A]	48/8	47/7	46/7	45/8	45/0	44/3	43/5	
	COP [-]	5/30	4/56	3/86	3/23	2/65	2/12	1/64	
	mLP [kg/h]	3007	2534	2116	1746	1418	1126	864	
	mHP [kg/h]	3007	2534	2116	1746	1418	1126	864	
	Qac [kW]								
	tcu [°C]	40/0	40/0	40/0	40/0	40/0	40/0	40/0	
	pm [bar(a)]								
	Qsc [kW]								
50°C	Q [W] P [kW]	115103 29/9	94251 28/9	76295 28/0	60878 27/2	47663 26/4	36336 25/6	26595 24/8	
	I [A]	55/3	54/0	52/9	51/9	50/9	50/0	49/0	
	COP [-]	3/86	3/26	2/73	2/24	1/81	1/42	1/07	
	mLP [kg/h]	2931	2454	2033	1662	1334	1044	784	
	mHP [kg/h]	2931	2454	2033	1662	1334	1044	801	
	Qac [kW]							1/06	
	tcu [°C]	50/0	50/0	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 (10K suction gas superheat, 0K liquid subcooling, see tech. data/ notes)

Application Limits Standard CSH6563-60





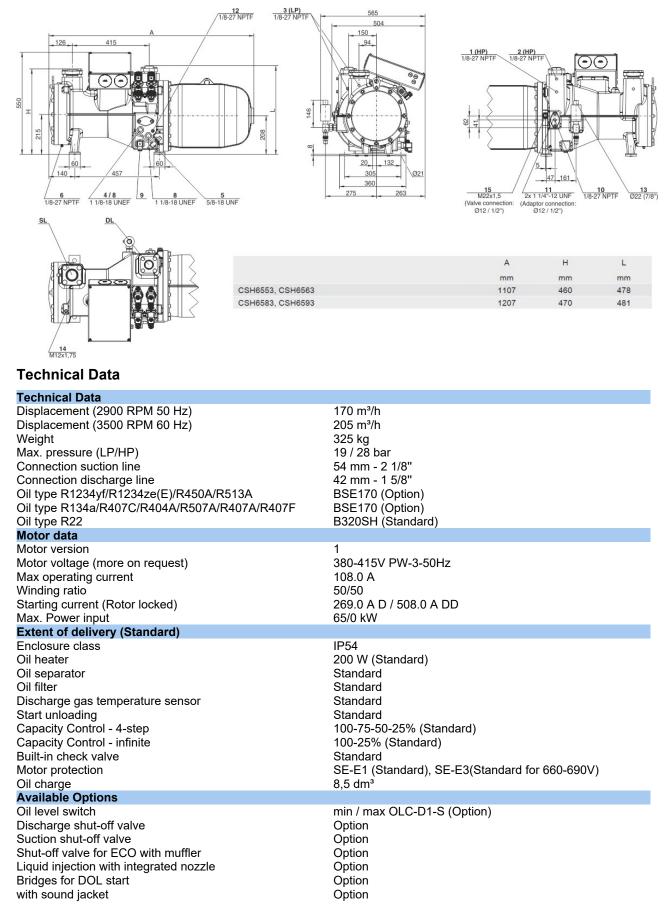
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Technical Data: CSH6563-60Y

Dimensions and Connections





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Vibration dampers Motor protection Option SE-i1 (200-690V)



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Compact Screw Compressors CS

Reference points for evaporating and condensing pressures

Connection positions 1 (HP) and 3 (LP) on the compressor (see dimensions). The pressure drop for shut-off valves and check valves has not been taken into consideration. This is the worldwide state of the art for compact screws, as in factory-produced chillers shut-off valves are often omitted and the check valve can also be arranged as an external com-ponent in the discharge line. For the sake of the international comparability of performance data, this standard has been adopted for the screw compressors of the CSH/CSW/CSVH series.

ASERCOM certified performance data

The Association of European Refrigeration Component Manufacturers has implemented a procedure of certifying performance data. The high standard of these certifications is assured by:

- * plausibility tests of the data performed by experts.
- * regular measurements at independent institutes.

These high efforts result in the fact that only a limited number of compressors can be submitted. Due to this not all BITZER compressors are certified up to now.Performance data of compressors which fulfil the strict requirements may carry the label "ASERCOM certified". In this software you will find the label at the respective compressors on the right side below the field "result" or in the print out of the performance data. All certified compressors and further information are listed on the homepage of ASERCOM.

Legend of connection positions according to "Dimensions":

1 High pressure connection (HP) 2 Additional high pressure connection 3 Low pressure connection (LP) 4 Oil sight glass 5 Oil valve for maitenance (standard) / connection for oil equalisation (parallel operation) 6 Oil drain plug (motor housing) 7 CSH only, except CSH6583, CSH6593, CSH95103 and CSH95113: Connection for electro-mechanical oil level switch in case of replacing a CSH.1 by a CSH.3 8 Connection for opto-electronical oil level switch (OLC-D1-S) CSVH: integrated into FI control CS.105: connected to monitoring module 9 Oil heater with sleeve (standard) CSVH: integrated into FI control CS.105: connected to monitoring module 10 Oil pressure connection 11 External oil cooler connections (adaptor optional) 11a outlet to oil cooler 11b inlet / return from oil cooler 12 Oil temperature sensor (PTC) CSVH: integrated into FI control CS.105: connected to monitoring module 13 Economiser connection (ECO) (shut-off valve optional CSH: with pulsation muffler) 14 Threaded bore for pipe support CS.L line for ECO or LI CSVH: 14a line for FCO 14b line for FI cooling 15 Liquid injection connection (LI) (CSH: shut-off valve optional) 16 Earth screw for housing 17 Connection for oil and gas return (for systems with flooded evaporator adaptor optional) 18 Oil filter (maitenance connection) 19 FI cooling (liquid refrigerant) 20 Frequency inverter (FI) 21 Oil injection valve (internal) 24 Gas permeable plug SL Suction gas line DL Discharge gas line Dimensions can show tolerances according to EN ISO 13920-B.