Technical Data

GDD-S Series refrigerant dryer: GDD4S – GDD100S

Model		GDD4S	GDD7S	GDD9S	GDD14S	GDD18S	GDD26S	GDD32S	GDD40S	GDD52S	GDD62S	GDD80S	GDD100S
Air flow 50 Hz	m³/h	24	42	54	84	108	156	192	240	312	372	480	600
	m³/min	0.4	0.7	0.9	1.4	1.8	2.6	3.2	4	5.2	6.2	8	10
Air flow 60 Hz	m³/h	28	47	60	96	124	176	218	272	361	429	555	689
	m³/min	0.47	0.78	1	1.6	2.07	2.93	3.63	4.53	6.02	7.15	9.25	11.48
Absorbed power 50Hz	kW	0.13	0.14	0.15	0.15	0.16	0.29	0.30	0.31	0.46	0.57	0.73	0.74
Absorbed power 60Hz	kW	0.16	0.17	0.19	0.18	0.20	0.36	0.37	0.38	0.56	0.69	0.90	0.91
Air connections	BSPP-F	½"	½"	½"	¾"	¾"	1"	1"	1"	1½"	1½"	1½"	1½"
R134a Charge	kg	0.14	0.15	0.15	0.17	0.18	0.33	0.34	0.35	0.39	0.4	0.74	0.75
Dimensions Width	mm	300	300	300	330	330	400	400	400	400	400	450	450
Height	mm	520	520	520	580	580	650	650	650	650	650	840	840
Depth	mm	400	400	400	550	550	630	630	630	630	630	780	780
Weight	kg	24	24	25	35	36	46	46	47	53	55	100	100
Pre-filter	BSPT	GDF0006G1/2"G			GDF0018G3/4"G		GDF0036G1"G		GDF0066G1"G	GDF0066G11/2"G		GDF0096G11/2"G	GDF0132G1 1/2"G

Correction factors for GDD_S model selection at 50Hz /60 Hz

A) Operating pressure	bar (g)	3	5	7	9	11	13	15	16
Correction Factor CFP 50Hz		1.35	1.11	1	0.85	0.81	0.77	0.72	0.71
Correction Factor CFP 60Hz		1.45	1.11	1	0.85	0.81	0.77	0.73	0.71
B) Inlet temperature	°C	30	35	40	45	50	55	60	65
Correction Factor CFID 50Hz		0.83	1	1.3	1.61	2	2.33	2.38	2.5
Correction Factor CFID 60Hz		0.85	1	1.32	1.61	2.04	2.56	2.63	2.78
C) Ambient temperature	°C	20	25	30	35	40	45	50	-
Correction Factor CFAT 50Hz		0.93	1	1.02	1.09	1.15	1.22	1.28	-
Correction Factor CFAT 60Hz		0.96	1	1.06	1.11	1.18	1.25	1.33	-
D) Pressure dewpoint	°C	+3	+5	+7					
Correction Factor CFD 50Hz		1	0.78	0.7					
Correction Factor CFD 60Hz		1	0.79	0.72					

GDD-HS Series refrigerant dryer: GDD120HS – GDD1800HS

Model		GDD120HS	GDD140HS	GDD180HS	GDD220HS	GDD260HS	GDD300HS	GDD350HS	GDD460HS	GDD520HS	GDD630HS	GDD750HS	GDD900HS	GDD1210HS	GDD1500HS	GDD1800HS
Volume flow at 20°C, 1 bar (a)	m³/min	12	14	18	22	26	30	35	46	52	63	75	90	120	150	180
Maximum operating pressure	bar	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Input power	kW	1.13	1.14	1.46	1.68	2.19	2.41	3.06	3.14	3.54	4.64	5.73	7.63	8.92	12.35	15.96
Compressed air connection	BSP-F	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	DN 100/PN16			DN150/PN16			DN200/PN16	
Refrigerant		R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c
Dimensions Width	mm	706	706	706	806	806	806	806	1007	1007	1007	1007	1007	1007	1007	1007
Height	mm	1064	1064	1064	1316	1316	1316	1316	1690	1722	1722	1722	1722	2048	2208	2208
Depth	mm	1046	1046	1046	1166	1166	1166	1166	1097	1097	1657	1657	1657	1657	2257	2257
Weight	kg	145	145	155	230	240	245	250	470	490	580	670	690	830	1100	1190
Pre-filter	BSPT	GDF0132G2"G	GDF0198G2"G		GDF0258G21/2"G		GDF0372G21/2"G		GDF0600G4"G			GDF1116GFG		GDF1488GFG	GDF2232GFG	
Power Supply	V/ph/Hz	400/3/50														

The listed performance data relates to air-cooled models with an air intake of 20°C and 1 bar (a) under the following operating conditions: Air intake at 25°C, 60% relative humidity, 7 bar g positive operating pressure, 25°C ambient temperature; 35°C compressed air inlet temperature; pressure dew point +3°C according to ISO 8573-1

Tolerance: Power consumption +/–10%; maximum inlet temperature: 65°C; maximum ambient temperature: 50°C; all data according to ISO 7183. The GDD220HS to GDD1800HS models are optionally available with water cooling.

Volume flow correction factors for different operating conditions

A) Operating pressure	bar (g)	5	7	8	9	10	11	12	13
GDD120HS – GDD1800HS		0.90	1.0	1.04	1.07	1.08	1.11	1.12	1.14
B) Inlet temperature	°C	30	35	40	45	50	55	60	65
GDD120HS – GDD1800HS		1.23	1.0	0.84	0.70	0.59	0.50	0.45	0.40
C) Ambient temperature	°C	20	25	30	35	40	45	50	-
GDD120HS – GDD1800HS		1.06	1.0	0.95	0.90	0.83	0.77	0.72	-
D) Pressure dewpoint	°C	3	4	5	6	7	8	9	10
GDD120HS – GDD1800HS		1	-	1.10	-	1.21	-	-	1.40

To obtain the necessary drying capacity, multiply the volume flow by the correction factors (Volume flow x A x B x C x D).

The correction factors given are guide values.

For precise selection, we recommend using the dryer configuration program.

For optimum efficiency a prefilter should be connected upstream of the refrigerant dryers for removing solid particles and oil.