

High Pressure Non Cycling Refrigeration Dryers

Reliable High Quality Air for Demanding Environments

Maximum reliability at working pressures up to 45 barg

Gardner Denver high-pressure refrigeration dryers deliver safe and constant quality, dry compressed air for various demanding environments such as PET bottle blowing, water jet cuts and aeronautical valves, in ambient temperatures of up to 50°C.

Delivering consistent dew point control of +3°C for reliable and dry compressed air, this range of ten robust, compact and space-saving dryers provide maximum reliability at flow rates of between 88m³/h to 1,200m³/h (at a nominal pressure of 40 barg).

The easy-to-use controller automatically manages dryer operation while monitoring critical parameters to deliver optimal air treatment efficiency.

Fully integrated three in one stainless steel heat exchangers offer reliability and long life. At the same time, energy efficiency is increased by 10% over previous models, and CO₂ footprint is reduced with the use of the new R513A refrigerant.

High-pressure non-cycling refrigeration dryers from Gardner Denver – efficiency and reliability by design support the sustainability of our product and customer operations.

Features

	GDD14F HP45 to GDD60F HP45	GDD80F HP45 to GDD200F HP45
Dew Point Indication	Yes	Yes
ON/OFF Switch	No Switch, Schuko Plug	Yes
Terminal for Remote Alarm Signal	Yes	Yes
Antifreezing	Yes	Yes
Refrigerant Pressure Safety Relief Valve	Yes	Yes
Variable Speed Fan	Yes	Yes
History of Last 10 Alarms	Yes	Yes
Hot Gas By-pass Valve	-	Yes
Timed Electronic Drain Valve	Yes	Yes
Electric Frequency	STD 50/60Hz	STD 50Hz, Optional 60Hz

Maximise **efficiency** and **reliability** with Gardner Denver's **environmentally friendly** high pressure compressed air systems solution.





Technical Data

Model	Part Number (CCN)	Air Flow 40 barg		Max Pressure	Power	Refrigerant	Dimensions W x D x H	Connections	Weight
		m ³ /h	m ³ /min	bar g	(kW)		(mm)	(BSP)	(kg)
GDD14F HP45	47757404001	88	1.47	45	0.371	R513A	390 x 432 x 443	3/4"	27
GDD18F HP45	47757405001	108	1.80	45	0.371	R513A	390 x 432 x 443	3/4"	28
GDD30F HP45	47757406001	180	3.00	45	0.605	R513A	420 x 516 x 551	3/4"	31
GDD38F HP45	47757407001	225	3.75	45	0.605	R513A	420 x 516 x 551	3/4"	33
GDD45F HP45	47757408001	270	4.50	45	0.879	R513A	420 x 516 x 551	3/4"	36
GDD60F HP45	47757409001	360	6.00	45	1.405	R513A	420 x 516 x 551	3/4"	40
GDD80F HP45	47757410001	480	8.00	45	1.41	R407C	500 x 680 x 980	1-1/4"	80
GDD80F HP45	47757411001	480	8.00	45	1.71	R407C	500 x 680 x 980	1-1/4"	80
GDD110F HP45	47757412001	660	11.00	45	1.92	R407C	500 x 680 x 980	1-1/4"	83
GDD110F HP45	47757413001	660	11.00	45	2.28	R407C	500 x 680 x 980	1-1/4"	83
GDD165F HP45	47757414001	990	16.50	45	1.92	R407C	520 x 770 x 1195	1-1/4"	110
GDD165F HP45	47757415001	990	16.50	45	2.28	R407C	520 x 770 x 1195	1-1/4"	110
GDD200F HP45	47757416001	1200	20.00	45	2.24	R407C	520 x 770 x 1195	1-1/4"	120
GDD200F HP45	47757417001	1200	20.0	45	2.28	R407C	520 x 770 x 1195	1-1/4"	120

Correction factors

FC1 - Correction factor for working pressure							
bar	15	20	25	30	35	40	45
psi	218	290	363	435	508	580	653
FC1	0.70	0.82	0.93	0.97	0.99	1	1.02

FC2 - Correction factor for inlet air temperature											
°C	10	15	20	25	30	35	40	45	50	55	60
°F	50	59	68	77	86	95	104	113	122	131	140
FC2	2.00	1.80	1.60	1.40	1.20	1	0.85	0.71	0.58	0.49	0.42

FC3 - Correction factor for ambient temperature											
°C	5	10	15	20	25	30	35	40	42	45	50
°F	41	50	59	68	77	86	95	104	107,6	113	122
FC3	1.16	1.12	1.08	1.04	1	0.96	0.92	0.88	0.85	0.80	0.70

Calculation of the dryer real flow rate = nominal dryer flow rate x FC1 x FC2 x [FC3]

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For additional information please contact Gardner Denver or your local representative.

Specifications subject to change without notice.