

DESICCANT REGENERATIVE DRYERS

SULLAIR HEATLESS DESICCANT MODULAR DRYERS (DMD)

Standard Features

- Completely automatic
- Compact design
- -40°F pressure dew point
- Adjustable wall mounted
- Quick and easy connection
- Long lasting high quality components

Options

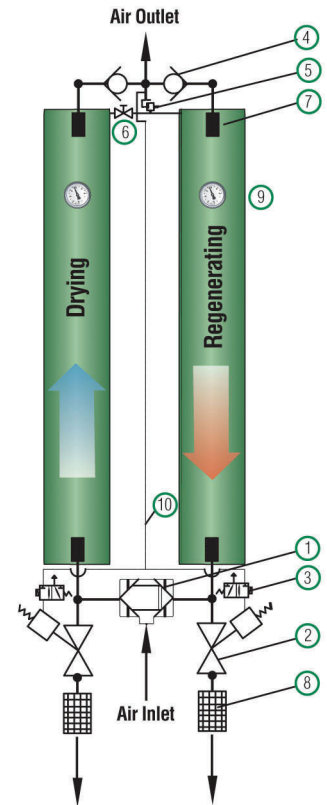
- Pre- and after-filter (shipped loose)
- Mounted filters with three valve bypass
- Visual Moisture Indicator
- Energy efficient Demand Cycle Control with dew point monitor
- Dew point monitor
- -4°F or -100°F pressure dew point



Desiccant Modular Dryer

DMD drawing description:

- 1 Inlet valve
- 2 Purge exhaust valve
- 3 Pilot valve
- 4 Outlet check valve
- 5 Pressure relief valve
- 6 Purge adjustment valve
- 7 Stainless steel inlet defuser
- 8 Purge exhaust muffler
- 9 Pressure gauge
- 10 Control air line



DESICCANT MODULAR DRYER

MODEL	SCFM	INLET – OUTLET CONNECTION	WIDTH IN	DEPTH IN	HEIGHT IN	WEIGHT LBS	ELECTRICAL	PRE-FILTER	AFTER-FILTER
DMD-3	3	1/2" NPT	13	10	22	32	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-5	5	1/2" NPT	13	10	25	36	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-10	10	1/2" NPT	13	10	36	52	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-15	15	1/2" NPT	15	10	32	57	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-20	20	1/2" NPT	15	10	44	79	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-25	25	1/2" NPT	15	10	50	90	115 - 230 / 1 / 50 & 60 Hz	FXH-25	FXFR-25
DMD-30	30	1/2" NPT	15	10	59	107	115 - 230 / 1 / 50 & 60 Hz	FXH-45	FXFR-45
DMD-40	40	1-1/2" NPT	16	17	49	156	115 - 230 / 1 / 50 & 60 Hz	FXH-45	FXFR-45
DMD-50	50	1-1/2" NPT	16	17	55	172	115 - 230 / 1 / 50 & 60 Hz	FXH-65	FXFR-65
DMD-60	60	1-1/2" NPT	16	17	69	202	115 - 230 / 1 / 50 & 60 Hz	FXH-65	FXFR-65
DMD-75	75	1-1/2" NPT	16	23	51	257	115 - 230 / 1 / 50 & 60 Hz	FXH-130	FXFR-130
DMD-100	100	1-1/2" NPT	16	23	57	286	115 - 230 / 1 / 50 & 60 Hz	FXH-130	FXFR-130
DMD-120	120	1-1/2" NPT	16	23	69	334	115 - 230 / 1 / 50 & 60 Hz	FXH-130	FXFR-130
DMD-180	180	1-1/2" NPT	16	28	59	407	115 - 230 / 1 / 50 & 60 Hz	FXH-240	FXFR-240
DMD-240	240	1-1/2" NPT	16	33	59	519	115 - 230 / 1 / 50 & 60 Hz	FXH-240	FXFR-240

DESICCANT REGENERATIVE DRYERS



DESICCANT HEATLESS DRYER

MODEL	SCFM	INLET – OUTLET CONNECTION	WIDTH IN	DEPTH IN	HEIGHT IN	WEIGHT LBS	ELECTRICAL	PRE-FILTER	AFTER-FILTER
DHL-80	80	3/4" NPT	24	31	84	450	115-1-60	FXH-130	FXFR-130
DHL-100	100	1" NPT	24	31	84	550	115-1-60	FXH-130	FXFR-130
DHL-125	125	1" NPT	24	31	84	600	115-1-60	FXH-130	FXFR-130
DHL-150	150	1" NPT	24	33	84	650	115-1-60	FXH-240	FXFR-240
DHL-200	200	1" NPT	24	33	84	880	115-1-60	FXH-240	FXFR-240
DHL-250	250	1-1/2" NPT	24	39	87	1250	115-1-60	FXH-350	FXFR-350
DHL-300	300	1-1/2" NPT	24	39	87	1350	115-1-60	FXH-350	FXFR-350
DHL-400	400	2" NPT	26	45	89	1900	115-1-60	FXH-475	FXFR-475
DHL-500	500	2" NPT	26	45	89	2200	115-1-60	FXH-700	FXFR-700
DHL-600	600	2" NPT	26	45	89	2500	115-1-60	FXH-700	FXFR-700
DHL-800	800	3" FLG	40	66	93	2800	115-1-60	FXH-1350	FXFR-1350
DHL-1000	1000	3" FLG	40	66	93	4150	115-1-60	FXH-1350	FXFR-1350
DHL-1250	1250	3" FLG	40	70	93	4400	115-1-60	FXH-1350	FXFR-1350
DHL-1500	1500	3" FLG	40	70	93	4700	115-1-60	FXH-1600	FXFR-1600
DHL-2000	2000	3" FLG	40	76	97	4900	115-1-60	FWH-2500	FXFR-2500
DHL-2500	2500	4" FLG	50	93	109	5600	115-1-60	FWH-2500	FXFR-2500
DHL-3000	3000	6" FLG	50	93	109	8100	115-1-60	FWH-3800	FXFR-3800
DHL-3500	3500	6" FLG	64	118	117	8300	115-1-60	FWH-3800	FXFR-3800
DHL-4000	4000	6" FLG	64	118	117	10500	115-1-60	FWH-5000	FXFR-5000
DHL-4500	4500	6" FLG	64	120	122	11800	115-1-60	FWH-5000	FXFR-5000
DHL-5000	5000	6" FLG	64	120	122	14500	115-1-60	FWH-5000	FXFR-5000

CAPACITY CORRECTION FACTORS (FOR ALL SULLAIR DESICCANT DRYERS)

CORRECTION FACTOR FOR INLET AIR PRESSURE (F1)

INLET PRESSURE	psig	50	60	70	80	90	100	110	120	130	140	150	175	200	225	250
	bar	3.5	4.1	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.3	12.1	13.8	15.5	17.3
FACTOR PRESSURE: F1		0.56	0.65	0.74	0.83	0.91	1	1.04	1.08	1.12	1.16	1.2	1.29	1.37	1.45	1.52

CORRECTION FACTOR FOR TEMPERATURE (F2)

°F	70	80	90	100	105	110	115	120
	°C	21	27	32	38	40	43	46
FACTOR: F2	1.12	1.1	1.06	1	0.93	0.86	0.8	0.75

Air flow capacity = Nominal capacity of the dryer x Factor F1 x Factor F2



a division of Accudyne Industries

DESICCANT REGENERATIVE DRYERS



DESICCANT EXTERNALLY HEATED DRYER

MODEL	SCFM	INLET – OUTLET CONNECTION	WIDTH IN	DEPTH IN	HEIGHT IN	WEIGHT LBS	ELECTRICAL	KW	PRE-FILTER	AFTER-FILTER
DEX-200	200	1" NPT	34	35	92	950	460-3-60	3	FXH-240	FXRHT-240
DEX-250	250	1-1/2" NPT	34	36	92	1100	460-3-60	3	FXH-350	FXRHT-350
DEX-300	300	1-1/2" NPT	34	36	92	1250	460-3-60	5	FXH-350	FXRHT-350
DEX-400	400	2" NPT	45	47	92	1500	460-3-60	6	FXH-475	FXRHT-475
DEX-500	500	2" NPT	45	47	92	1600	460-3-60	7	FXH-700	FXRHT-700
DEX-600	600	2" NPT	45	47	92	2100	460-3-60	9	FXH-700	FXRHT-700
DEX-800	800	3" FLG	60	80	95	2500	460-3-60	11	FXH-925	FXRHT-925
DEX-900	900	3" FLG	60	80	95	2800	460-3-60	13	FXH-925	FXRHT-925
DEX-1000	1000	3" FLG	60	80	95	4100	460-3-60	15	FXH-1350	FXRHT-1350
DEX-1250	1250	3" FLG	60	80	110	4700	460-3-60	18	FXH-1350	FWRHT-1350
DEX-1500	1500	3" FLG	60	80	110	4900	460-3-60	20	FXH-1600	FWRHT-1600
DEX-2000	2000	3" FLG	62	80	110	5300	460-3-60	25	FWH-2500	FWRHT-2500
DEX-2500	2500	4" FLG	65	82	110	6200	460-3-60	25	FWH-2500	FWRHT-2500
DEX-3000	3000	6" FLG	65	82	110	7600	460-3-60	30	FWH-3800	FWRHT-3800
DEX-3500	3500	6" FLG	70	85	120	8300	460-3-60	38	FWH-3800	FWRHT-3800

DESICCANT BLOWER PURGE DRYER

MODEL	SCFM	INLET – OUTLET CONNECTION	WIDTH IN	DEPTH IN	HEIGHT IN	WEIGHT LBS	ELECTRICAL	KW	PRE-FILTER	AFTER-FILTER
DBP-500	500	2" NPT	45	71	92	2500	460-3-60	10	FXH-700	FXRHT-700
DBP-650	650	2" NPT	45	71	92	2750	460-3-60	12	FXH-700	FXRHT-700
DBP-800	800	3" FLG	60	93	95	4100	460-3-60	18	FXH-925	FXRHT-925
DBP-1000	1000	3" FLG	60	93	95	4500	460-3-60	24	FXH-1350	FXRHT-1350
DBP-1250	1250	3" FLG	60	93	95	8200	460-3-60	30	FXH-1350	FXRHT-1350
DBP-1500	1500	3" FLG	60	93	95	8200	460-3-60	36	FXH-1600	FXRHT-1600
DBP-2000	2000	4" FLG	65	106	109	9800	460-3-60	45	FWH-2500	FWFHT-2500
DBP-2500	2500	4" FLG	75	106	120	15000	460-3-60	50	FWH-2500	FWFHT-2500
DBP-3000	3000	6" FLG	75	106	120	15000	460-3-60	55	FWH-3800	FWFHT-3800
DBP-3500	3500	6" FLG	82	150	132	19000	460-3-60	60	FWH-3800	FWFHT-3800
DBP-4000	4000	6" FLG	94	160	132	19000	460-3-60	70	FWH-5000	FWFHT-5000
DBP-5000	5000	6" FLG	94	180	140	28000	460-3-60	80	FWH-5000	FWFHT-5000
DBP-6000	6000	6" FLG	CF	CF	CF	CF	460-3-60	90	FWH-6500	FWFHT-6500
DBP-7000	7000	8" FLG	CF	CF	CF	CF	460-3-60	105	FWH-8300	FWFHT-8300
DBP-7500	7500	8" FLG	CF	CF	CF	CF	460-3-60	125	FWH-8300	FWFHT-8300
DBP-9000	9000	10" FLG	CF	CF	CF	CF	460-3-60	135	FWH-10000	FWFHT-10000
DBP-10000	10000	10" FLG	CF	CF	CF	CF	460-3-60	140	FWH-10000	FXFHT-10000

CORRECTION FACTOR FOR INLET AIR PRESSURE (F1)

INLET PRESSURE	psig	50	60	70	80	90	100	110	120	130	140	150	175	200	225	250
	bar	3.5	4.1	4.8	5.5	6.2	6.9	7.6	8.3	9	9.7	10.3	12.1	13.8	15.5	17.3
FACTOR PRESSURE: F1		0.56	0.65	0.74	0.83	0.91	1	1.04	1.08	1.12	1.16	1.2	1.29	1.37	1.45	1.52

CORRECTION FACTOR FOR TEMPERATURE (F2)

	°F		°C	
	70	80	90	100
FACTOR: F2	1.12	1.1	1.06	1
	105	110	115	120
	40	43	46	49
	0.93	0.86	0.8	0.75

Air flow capacity = Nominal capacity of the dryer x Factor F1 x Factor F2

