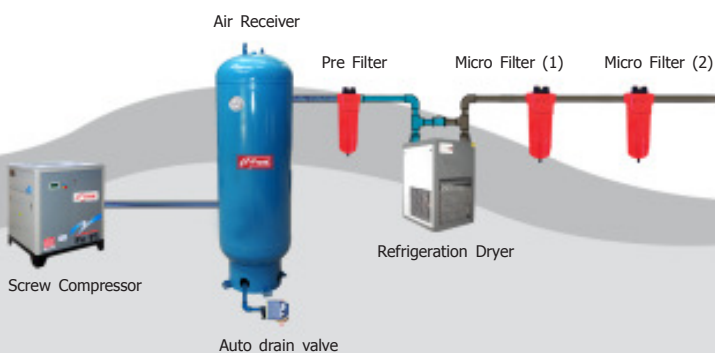


15 years of Service



Installation Guide ISO 8573.1



Refrigeration Compressed Air Dryer

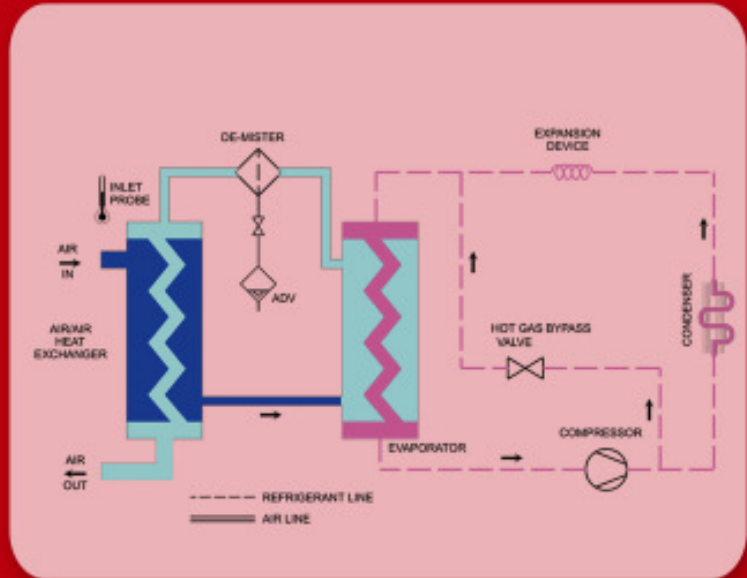
NIPPY DRY

- Dewpoint +3°C
- Designed for high ambient temperatures
- Intelligent controller
- Time delay for compressor safety
- Advanced 3 in 1 heat exchanger for low pressure drop

The air produced by a compressor is **HOT, WET** and **DIRTY**.
The first step in **GOOD AIR** preparation is to **FILTER** out these **CONTAMINANTS**.

Principle of Operation - Nippydry

Warm compressed air enters the Air / Air Heat Exchanger where it is pre-cooled by outgoing cold dry air. The pre-cooled air enters the Air to Freon Heat Exchanger where it is cooled down to +3°C. At this temperature, water condenses into liquid droplets, which are removed from the air stream by a very efficient Demister and automatically discharged by a Automatic Drain Valve. The Cold dry compressed air passes back through the secondary side of the Air to Air Heat Exchanger where it is reheated by the incoming warm air.



Specification of Dryer

Model	Flow in scfm	Power Consumption in KW		End Connection	Dimensions in mm			Weight in Kg	Max. Working Pressure
		R 134a	R 407c		H	W	D		
Nippydry 20	20	0.36	—	1" BSP	395	400	430	55	16
Nippydry 40	40	0.36	—	1" BSP	525	450	475	55	16
Nippydry 50	50	0.36	—	1" BSP	525	450	475	55	16
Nippydry 60	60	0.36	—	1" BSP	525	450	475	55	16
Nippydry 80	80	0.85	—	1" BSP	675	485	525	70	16
Nippydry 100	100	0.85	—	1" BSP	675	485	525	70	16
Nippydry 150	150	1.02	—	1½" BSP	852	670	700	110	16
Nippydry 200	200	—	1.40	1½" BSP	852	670	700	130	16
Nippydry 250	250	—	1.40	1½" BSP	852	670	700	130	16
Nippydry 300	300	—	1.85	2" NB	1020	680	980	240	14
Nippydry 400	400	—	2.10	2" NB	1020	680	980	260	14
Nippydry 500	500	—	2.40	2" NB	1020	680	980	290	14
Nippydry 650	650	—	3.30	2" NB	1020	1000	1400	350	14
Nippydry 800	800	—	4.00	3" NB	1020	1000	1400	490	14
Nippydry 1000	1000	—	4.80	3" NB	1020	1000	1400	580	14

For any other capacity contact factory. Specifications are subject to change without notification.

How to Order

Requirement :	Inlet flow	100 scfm
	working pressure	5 Kg / cm ²
	Inlet temperature	45° C
	Ambient temperature	38° C
Referring tables :	Factor Pi	= 0.84
	Factor Ti	= 1
	Factor Ta	= 1
Dryer capacity required :	Flow	= 100
	Pi x Ti x Ta	0.84 x 1 x 1
		= 119 scfm
Choose the nearest higher model :		= Nippydry 150

Correction Factor

Inlet Air Temperature °C	30	38	45	50
Correction Factor (Ti)	1.14	1.08	1	0.75
Inlet Pressure Kg/cm ²	5	7	9	12
Factor (Pi)	0.84	1	1.11	1.21
Ambient Temperature °C	25	30	38	43
Factor (Ta)	1.36	1.18	1.0	0.86



Compressed Air Filters - **Cleansweep**

Technical Data

Model	Element Grade	Drain Type	Pipe Size BSP/ NB	Flow Rate (scfm)	Max Working Pressure kg/cm ²	Housing Dimensions (mm)	
						Width	Height
T 100	P / X / Y / A	EA / IA	½"	60	16	92	233
T 250	P / X / Y / A	EA / IA	1"	150	16	114	326
T 600	P / X / Y / A	EA / IA	1½"	350	16	118	420
T 851	P / X / Y / A	EA / IA	2"	500	16	145	580
T 1210	P / X / Y / A	EA / IA	2"	710	16	145	580
T 1810	P / X / Y / A	EA / IA	3"	1065	12	190	700

Ordering Code : Example : Model T 100 X EA (or) T 100 X IA

X - Element Grade ; EA - Electronic adjustable timer drain ;

IA - Internal Automatic float drain

Specification

Element Grade

Description	P	X	Y	A
Filter Element	Borosilicate	Borosilicate	Borosilicate	Activated Carbon
Particle Removal	5 (Micron)	1 (Micron)	0.01 (Micron)	0.01 (Micron)
Max. Oil carryover	5 (mg/m ³)	0.5 (mg/m ³)	0.01 (mg/m ³)	0.003 (mg/m ³)
Max. Working Temp.	80°C	80°C	80°C	80°C



Desiccant Compressed Air Dryers - **DRYSPELL**

Specifications

Maximum Working Pressure	16 kg / cm ²
Air Inlet Condition	Maximum Fluid Temp 45°C
Recommended Pre-filter	0.01 Microns (Coalescer)
After filter	In built 25 micron (within the diffuser screen or compactor plate)
Cycle Time	4 Minutes
Regeneration Volume	12%
Air Outlet Conditions	Dry air at -40°C Dew Point
Operating Voltage	100 - 240 V Ac 50/60 hz 1 Ph

Model	Flow scfm	End Connection BSP	Dimensions (mm)			Weight KGs
			H	W	D	
Dryspell 5	5	½"	390	280	200	9
Dryspell 10	10	½"	600	280	200	11
Dryspell 20	20	½"	800	280	200	13
Dryspell 30	30	½"	1015	280	200	16
Dryspell 45	45	½"	810	350	260	28
Dryspell 60 A	60	¾"	1055	350	260	34
Dryspell 100	100	1"	1250	350	285	43
Dryspell 125	125	1"	1960	440	355	98
Dryspell 200	200	1½"	1976	450	550	192



Automatic Drain Valves Timer Type - **CTD**

Specifications :

Voltage	230 V AC / 50 Hz / 1 Ph
Inlet	1/2" BSP (F)
Outlet	1/2" BSP (F)
Pressure	2 - 16 bar (g)
Valve Orifice	4 mm
Timing	Cycle : 1 min to 60 min Adjustable Drain : 1 sec to 20 Sec
Compressor Capacity	Upto 500 cfm



Automatic Drain Valves - **LDV**

Specifications

Maximum Working Pressure
Minimum Working Pressure
Capacity
End connection Inlet
End connection Outlet
Voltage

LDV-2000

16 Kg/cm²
4 Kg/cm²
upto 1000 cfm
1/2" (M) BSP
1/2" (F) BSP
85 to 265 V
AC 50/60 Hz, 1Ph

Automatic Drain Valves - **Series EDV-X**

Specifications	EDV X1-4	EDV X1-1	EDV X1-2	EDV X-HD-1-1
Maximum working Pressure (kg/cm ²)	8	15	40	15
Valve Orifice (mm)	5	1.3	1.3	12.5
Timing Cycle :	1 min to 120 min Adjustable			
Drain :	1 sec to 25 sec			
Valve Connection Size	1/2" BSP (F)			
Environmental Protection	IP 55			
Voltage (V)	230 / 110			



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Dealer