



NAND SHYAM

ENGINEERING CORPORATION



DEWPOT

REFRIGERATED

AIR DRYER



DEWPOT - Refrigerated air dryer



Compressed air is an essential power source that is widely used throughout industry. This is safe, powerful and reliable utility can be the most important part of your production process. However, your compressed air will contain water, dirt, wear particles, bacteria and even degraded lubricating oil which all mix together to form an unwanted abrasive sludge. This sludge, often acidic, rapidly wears tools and pneumatic machinery, blocks valves and orifices causing high maintenance and costly air leaks. It also corrodes piping systems and can bring your production process to an extremely expensive stand still. Only compressed air that is totally clean and dry will ensure maximum savings. All of these costly problems can be avoided by installing a NSEC "Dewpot" compressed air refrigeration dryer package complete with "Junair" filtration. The packages are suitable for use with any compressor type and provide air quality to ISO 8573.1 Class 1.4.1.

TECHNICAL DATA

Model	Flow Rate		Connection	Power	Refrigerant	Dimension			Weight
	Nm ³ /hr	Scfm				L (mm)	B (mm)	H (mm)	
DP 010	17	10	1/2" BSP	230V/1ph/50Hz	R 134a	460	350	600	30
DP 020	33	20	1/2" BSP	230V/1ph/50Hz	R 134a	460	350	600	32
DP 030	50	30	1/2" BSP	230V/1ph/50Hz	R 134a	660	400	625	35
DP 040	70	42	3/4" BSP	230V/1ph/50Hz	R 134a	660	400	625	48
DP 060	107	64	1" BSP	230V/1ph/50Hz	R 134a	625	600	770	65
DP 100	167	100	1" BSP	230V/1ph/50Hz	R 22/R 407c	625	600	770	75
DP 135	225	135	1 1/2" BSP	230V/1ph/50Hz	R 22/R 407c	625	600	770	78
DP 175	292	175	1 1/2" BSP	230V/1ph/50Hz	R 22/R 407c	625	600	770	83
DP 200	333	200	1 1/2" BSP	230V/1ph/50Hz	R 22/R 407c	920	600	1020	105
DP 250	417	250	2" BSP	415V/3ph/50Hz	R 22/R 407c	920	600	1020	110
DP 300	500	300	2" BSP	415V/3ph/50Hz	R 22/R 407c	1067	660	1020	145
DP 360	600	360	2" BSP	415V/3ph/50Hz	R 22/R 407c	1067	660	1020	176
DP 500	867	520	3" NB	415V/3ph/50Hz	R 22/R 407c	1067	660	1020	185
DP 650	1083	650	3" NB	415V/3ph/50Hz	R 22/R 407c	1310	1000	1500	210
DP 800	1333	800	3" NB	415V/3ph/50Hz	R 22/R 407c	1310	1000	1500	225
DP 1000	1667	1000	4" NB	415V/3ph/50Hz	R 22/R 407c	1310	1000	1500	255
DP 1250	2083	1250	4" NB	415V/3ph/50Hz	R 22/R 407c	1800	1000	1750	275
DP 1500	2500	1500	5" NB	415V/3ph/50Hz	R 22/R 407c	1800	1200	1750	350
DP 2000	3333	2000	6" NB	415V/3ph/50Hz	R 22/R 407c	2000	1200	1750	425
DP 3000	5000	3000	8" NB	415V/3ph/50Hz	R 22/R 407c	2000	1400	1750	575

CORRECTION FACTOR

Ambient Temp °C	30	35	40	45	50	55		
Factor (A)	1.20	1.05	1	0.91	0.79	0.60		
Inlet Temp °C	30	35	40	45	50	55		
Factor (B)	1.48	1.36	1.18	1	0.84	0.70		
Dew Point Temp °C	1	2	3	5	7	10		
Factor (C)	0.80	0.90	1	1.15	1.25	1.50		
Working Pressure Bar g	1	3	5	7	9	11	13	15
Factor (D)	0.50	0.74	1.00	1.00	1.10	1.20	1.30	1.70

• Flow Rate at rated Conditions = Flow Rate *A*B*C*D
Compressed Air Quality ISO 8573.1.1

Class	Solid Particles Maximum number of Particles per m ³			Water Pressure DewPoint °C	Oil Content	
	0.1 ≤ d ≤ 0.5 micron	0.5 ≤ d ≤ 1.0 micron	1.0 ≤ d ≤ 5.0 micron		Mg/m ³	PPM
1	100	1	0	≤ -70	≤ 0.01	≤ 0.008
2		1000	10	≤ -40	≤ 0.1	≤ 0.08
3		10000	500	≤ -20	≤ 1.0	≤ 0.8
4			1000	≤ +3	≤ 5.0	≤ 4.0
5			20000	≤ +7		