



Title:	TECHNICAL DATA SHEET - REFRIGERATED AIR DRYER	Doc. No./Version:	CCN 47659050 / Rev A	Date:	25.12.18
Function / Organization:		Author(s):		Functional Owner:	
Engineering		Prabhu .P		Mahesh KR	

DRYER DATA

MODEL		ND25IN-A	ND42IN-A	ND85IN-A	ND105IN-A	Rated / Max
RATED COMPRESSED AIR CAPACITY	m ³ /hr	42	72	144	180	
POWER SUPPLY	V/Ph/Hz	230 ±10% / 1 /50 ±1%				
RATED POWER CONSUMPTION	kW	0.17	0.2	0.47	0.61	
RATED ADSORPTION	A	1.07/1.3	1.29/1.61	2.86/4.1	4/4.75	(Rated / Max)
COMPRESSOR LOCK ROTOR CURRENT	A	8.9	11.6	21	24	
UNIT WEIGHT	Kg	26	26	38	43	
AIR CONNECTION	ANSI	1/2"BSP		3/4"BSP		
REFRIGERANT TYPE		R134A				
REFRIGERANT QUANTITY	kg	0.23	0.3	0.33	0.48	
COMPRESSED AIR INLET TEMP.	°C	35/60				(Rated / Max)
AMBIENT TEMP.	°C	25/50				(Rated / Max)
AIR PRESSURE	barg	7/14				(Rated / Max)
RATED AIR PRESSURE DROP	bar	0.03/0.34	0.08/0.34	0.05/0.34	0.17/0.34	(Rated / Max)
PRESSURE DEW POINT	°C	7(ISO CLASS 5)				

STANDARD FEATURE

CONTROL PANEL	ELECTRONIC
CONDENSER COOLING	AIR COOLED
HEAT EXCHANGER	ALUMINIUM BRAZED PLATE
REFRIGERATED COMPRESSOR TYPE	HERMETIC
INSTALLATION TYPE	UNDER ROOF/INDOOR/NON CORROSIVE
DRAIN DISCHARGE	TIMER BASE SOLENOID DRAIN
EXPANSION METHOD	CAPILLARY TUBE
ELECTRIC PROTECTION	IP 42
MOISTURE SEPARATOR	IN BUILT WITH EVAPORATOR

Note:

Performance refer to the Air suction temperature of FAD 20 °C, 1 barg and the following operating condition for Dryer input:Air Inlet Temperature 35 °C, Air pressure 7 barg, Ambient Temperature 25 °C

PERFORMANCE & SPECIFICATION :- ± 5%



Title:	TECHNICAL DATA SHEET - REFRIGERATED AIR DRYER	Doc. No./Version:	CCN 47659050 / Rev A	Date:	25.12.18
Function / Organization:		Author(s):		Functional Owner:	
Engineering		Prabhu .P		Mahesh KR	

DRYER DATA

MODEL		ND140IN-A	ND210IN-A	ND280IN-A	Rated / Max
RATED COMPRESSED AIR CAPACITY	m ³ /hr	240	360	480	
POWER SUPPLY	V/Ph/Hz	230 ±10% / 1 /50 ±1%			
RATED POWER CONSUMPTION	kW	0.9	0.9	1.24	
RATED ADSORPTION	A	4.6/6	4.6/6	5.9/8.4	(Rated / Max)
COMPRESSOR LOCK ROTOR CURRENT	A	28	28	33	
UNIT WEIGHT	Kg	76	76	82	
AIR CONNECTION	ANSI	1 1/2" BSP			
REFRIGERANT TYPE		R407C			
REFRIGERANT QUANTITY	kg	0.95	0.95	1.2	
COMPRESSED AIR INLET TEMP.	°C	35/60			(Rated / Max)
AMBIENT TEMP.	°C	25/50			(Rated / Max)
AIR PRESSURE	barg	7/14			(Rated / Max)
RATED AIR PRESSURE DROP	bar	0.11/0.34	0.24/0.34	0.19/0.34	(Rated / Max)
PRESSURE DEW POINT	°C	7(ISO CLASS 5)			

STANDARD FEATURE

CONTROL PANEL	ELECTRONIC
CONDENSER COOLING	AIR COOLED
HEAT EXCHANGER	ALUMINIUM BRAZED PLATE
REFRIGERATED COMPRESSOR TYPE	HERMETIC
INSTALLATION TYPE	UNDER ROOF/INDOOR/NON CORROSIVE
DRAIN DISCHARGE	TIMER BASE SOLENOID DRAIN
EXPANSION METHOD	CAPILLARY TUBE
ELECTRIC PROTECTION	IP 42
MOISTURE SEPARATOR	IN BUILT WITH EVAPORATOR

Note:

Performance refer to the Air suction temperature of FAD 20 °C, 1 barg and the following operating condition for Dryer input: Air Inlet Temperature 35 °C, Air pressure 7 barg, Ambient Temperature 25 °C

PERFORMANCE & SPECIFICATION :- ± 5%