CCN: 47739675001

Ingersoll Rand
Industrial Technologies

DA-NVCW Series Nirvana Cycling Refrigerated Dryers (60 Hz Models)

3600-24000 SCFM Single Module Water Cooled Product Line

Industrial Technologies and Services - Americas
Davidson, NC 28036

30-May-21
All Previous

Engineering Data

Model Name	DA6000NVCW	DA8000NVCW	DA10000NVCW
Performance Data			
Conditions	Specified in accordance with ISO 7183, Table 2, A2 100 PSIG/100°F Inlet/100°F Ambient/100% Relative Humidity		
Rated Flow (SCFM)	3600	4800	6000
Pressure Drop (PSIG) (w/o Inlet Filter)*	4.10	4.10	4.10
Electrical Data			
Installed Package Power (kW)	13.20	16.60	20.40
Electrical Supply	460-3-60		
Minimum Circuit Ampacity (amps)	44.52	59.81	70.75
Maximum Fuse Size (amps)	60.00	80.00	100.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)		
Short Circuit Current Rating (SCCR)	5kA		
Weights & Dimenensions			
Width (in)	81.46	81.46	81.6
Depth (in)	99.4	99.42	99.39
Height (in)	97.84	97.84	98.91
Shipping Weight (lbs)	5749	6337	6892
General Data			
Air Inlet / Outlet Connections (in)	8	8	10
Air Connection Type	Flanged		
Max Operating Ambient Temp (°F)	115		
Max Operating Inlet Temp (°F)	120		
Min Operating Ambient Temp (°F)	40		
Max Operating Pressure (PSIG)	200		
Sound Level (dBA)	<85		
Condensate Drain Connection	1/2" FNPT		
Condenser Airflow (cfm)	NA	NA	NA
Heat Rejection (btuh)	180,491	236,170	301,592
Refrigerant Compressor (HP)	9.7	12.7	15.9
Refrigerant Type	R410A	R410A	R410A
Refrigerant Charge (lb-oz)	14 lbs	19 lbs 14 oz	21 lbs 2 oz
Water Cooled Data (Minimum Water Pressure 30 PSIG)			
Water Flow (GPM)	26	30	42
Water Pressure Drop (PSIG)	15-20	15-20	15-25
Design Inlet Cooling Water Temperature (°F)	85	85	85
Max/Min Inlet Cooling Water Temperature (°F)	90/70	90/70	90/70
Condensing Temperature (°F)	105	105	105
Inlet/Outlet Water Connection (NPT)	1 1/2" MNPT	1 1/2" MNPT	1 1/2" MNPT

***Units equipped with inlet filters have additional pressure drop to this value. Additional pressure drop due to filtration is variable due to element saturation and degradation.**

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Engineering Data

Model Name	DA12000NVCW	DA15000NVCW	DA20000NVCW
Performance Data			
Conditions	Specified in accordance with ISO 7183, Table 2, A2 100 PSIG/100°F Inlet/100°F Ambient/100% Relative Humidity		
Rated Flow (SCFM)	7200	9000	12000
Pressure Drop (PSIG) (w/o Inlet Filter)*	4.10	4.10	4.10
Electrical Data			
Installed Package Power (kW)	24.90	30.60	40.80
Electrical Supply	460-3-60		
Minimum Circuit Ampacity (amps)	89.55	105.96	141.17
Maximum Fuse Size (amps)	125.00	150.00	200.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)		
Short Circuit Current Rating (SCCR)	5kA		
Weights & Dimenensions			
Width (in)	115.6	115.66	149.86
Depth (in)	99.42	99.42	99.36
Height (in)	103.91	104.91	105.53
Shipping Weight (lbs)	9397	10953	15215
General Data			
Air Inlet / Outlet Connections (in)	10	12	14
Air Connection Type	Flanged		
Max Operating Ambient Temp (°F)	115		
Max Operating Inlet Temp (°F)	120		
Min Operating Ambient Temp (°F)	40		
Max Operating Pressure (PSIG)	200		
Sound Level (dBA)	<85		
Condensate Drain Connection	1/2" FNPT		
Condenser Airflow (cfm)	NA	NA	NA
Heat Rejection (btuh)	354,255	452,387	603,183
Refrigerant Compressor (HP)	12.7	15.9	15.9
Refrigerant Type	R410A	R410A	R410A
Refrigerant Charge (lb-oz)	29 lbs 13 oz	31 lbs 11 oz	42 lbs 4 oz
Water Cooled Data (Minimum Water Pressure 30 PSIG)			
Water Flow (GPM)	45	63	84
Water Pressure Drop (PSIG)	20-25	15-25	15-25
Design Inlet Cooling Water Temperature (°F)	85	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	90/70	90/70
Condensing Temperature (°F)	105	105	105
Inlet/Outlet Water Connection (NPT)	2" MNPT	2" MNPT	3" Flanged

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Engineering Data

Model Name	DA25000NVCW	DA30000NVCW	DA350000NVCW
Performance Data			
Conditions	Specified in accordance with ISO 7183, Table 2, A2 100 PSIG/100°F Inlet/100°F Ambient/100% Relative Humidity		
Rated Flow (SCFM)	15000	18000	21000
Pressure Drop (PSIG) (w/o Inlet Filter)*	4.10	4.10	4.10
Electrical Data			
Installed Package Power (kW)	51.00	61.20	71.40
Electrical Supply	460-3-60		
Minimum Circuit Ampacity (amps)	176.37	211.58	246.80
Maximum Fuse Size (amps)	225.00	250.00	300.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)		
Short Circuit Current Rating (SCCR)	5kA		
Weights & Dimenensions			
Width (in)	185.02	218.81	251.43
Depth (in)	99.42	99.42	100.74
Height (in)	105.53	105.53	106.53
Shipping Weight (lbs)	18060	20852	24986
General Data			
Air Inlet / Outlet Connections (in)	14	16	16
Air Connection Type	Flanged		
Max Operating Ambient Temp (°F)	115		
Max Operating Inlet Temp (°F)	120		
Min Operating Ambient Temp (°F)	40		
Max Operating Pressure (PSIG)	200		
Sound Level (dBA)	<85		
Condensate Drain Connection	1/2" FNPT		
Condenser Airflow (cfm)	NA	NA	NA
Heat Rejection (btuh)	753,979	904,775	1,055,570
Refrigerant Compressor (HP)	15.9	15.9	15.9
Refrigerant Type	R410A	R410A	R410A
Refrigerant Charge (lb-oz)	52 lbs 13 oz	63 lbs 6 oz	73 lbs 15 oz
Water Cooled Data (Minimum Water Pressure 30 PSIG)			
Water Flow (GPM)	105	126	147
Water Pressure Drop (PSIG)	15-25	15-25	15-25
Design Inlet Cooling Water Temperature (°F)	85	85	85
Max/Min Inlet Cooling Water Temperature (°F)	90/70	90/70	90/70
Condensing Temperature (°F)	105	105	105
Inlet/Outlet Water Connection (NPT)	3" Flanged	3" Flanged	4" Flanged

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Engineering Data

Model Name	DA40000NVCW
Performance Data	
Conditions	Specified in accordance with ISO 7183, Table 2, A2 100 PSIG/100°F Inlet/100°F Ambient/100% Relative Humidity
Rated Flow (SCFM)	24000
Pressure Drop (PSIG) (w/o Inlet Filter)*	4.10
Electrical Data	
Installed Package Power (kW)	81.60
Electrical Supply	460-3-60
Minimum Circuit Ampacity (amps)	282.00
Maximum Fuse Size (amps)	350.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)
Short Circuit Current Rating (SCCR)	5kA
Weights & Dimenensions	
Width (in)	288.31
Depth (in)	100.73
Height (in)	106.53
Shipping Weight (lbs)	28769
General Data	
Air Inlet / Outlet Connections (in)	16
Air Connection Type	Flanged
Max Operating Ambient Temp (°F)	115
Max Operating Inlet Temp (°F)	120
Min Operating Ambient Temp (°F)	40
Max Operating Pressure (PSIG)	200
Sound Level (dBA)	<85
Condensate Drain Connection	?????
Condenser Airflow (cfm)	NA
Heat Rejection (btuh)	1,206,366
Refrigerant Compressor (HP)	15.9
Refrigerant Type	R410A
Refrigerant Charge (lb-oz)	84 lbs 8 oz
Water Cooled Data (Minimum Water Pressure 30 PSIG)	
Water Flow (GPM)	168
Water Pressure Drop (PSIG)	15-25
Design Inlet Cooling Water Temperature (°F)	85
Max/Min Inlet Cooling Water Temperature (°F)	90/70
Condensing Temperature (°F)	105
Inlet/Outlet Water Connection (NPT)	4" Flanged

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