



Nirvana Cycling Refrigerated Dryers 3250 - 4800 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Air Cooled

Model Name	NVC3250	NVC4000	NVC4800
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)	3250	4000	4800
Pressure Drop (PSIG)	3.50	3.50	3.50
Electrical Data			
Installed Package Power (kW)	26.2	27.0	31.6
Electrical Supply	460-3-60		
Minimum Circuit Ampacity (amps)	50.30	64.60	66.80
Maximum Fuse Size (amps)	60.00	90.00	90.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)		
Weights & Dimensions			
Width (in)	76	76	76
Depth (in)	96	96	96
Height (in)	100	100	100
Shipping Weight (lbs)	6950	7125	7665
General Data			
Air Inlet / Outlet Connections (in)	8		
Air Connection Type	FLG		
Max Operating Ambient Temp (°F)	113		
Max Operating Inlet Temp (°F)	120		
Min Operating Ambient Temp (°F)	35		
Max Operating Pressure (PSIG)	220		
Sound Level (dBA)	<85		
Condensate Drain Connection	(2) 1/2"		
Condenser Airflow (cfm)	13,300	12,900	12,900
Heat Rejection (btuh)	227,566	293,130	293,130
Refrigerant Compressor (HP)	10.5	13.5	13.5
Refrigerant Type	R404A	R404A	R404A
Refrigerant Charge (lb-oz)	32-0	35-0	35-0
Water Cooled Data (Minimum Water Pressure 30 PSIG)			
Water Flow (GPM)	N/A	N/A	N/A
Water Pressure Drop (PSIG)	N/A	N/A	N/A
Design Inlet Cooling Water Temperature (°F)	N/A	N/A	N/A
Max/Min Inlet Cooling Water Temperature (°F)	N/A	N/A	N/A
Condensing Temperature (°F)	N/A	N/A	N/A
Inlet/Outlet Water Connection (NPT)	N/A	N/A	N/A



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Engineering Data - Water Cooled

Model Name	NVC3250	NVC4000	NVC4800
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)	3250	4000	4800
Pressure Drop (PSIG)	3.50	3.50	3.50
Electrical Data			
Installed Package Power (kW)	15.3	20.7	22.8
Electrical Supply	460-3-60		
Minimum Circuit Ampacity (amps)	36.50	44.60	46.60
Maximum Fuse Size (amps)	50.00	60.00	60.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)		
Weights & Dimensions			
Width (in)	76	76	76
Depth (in)	96	96	96
Height (in)	100	100	100
Shipping Weight (lbs)	6520	6720	6880
General Data			
Air Inlet / Outlet Connections (in)	8		
Air Connection Type	FLG		
Max Operating Ambient Temp (°F)	113		
Max Operating Inlet Temp (°F)	120		
Min Operating Ambient Temp (°F)	35		
Max Operating Pressure (PSIG)	220		
Sound Level (dBA)	<75		
Condensate Drain Connection	(2) 1/2"		
Condenser Airflow (cfm)	N/A	N/A	N/A
Heat Rejection (btuh)	225,746	286,500	286,500
Refrigerant Compressor (HP)	9	10.5	10.5
Refrigerant Type	R404A	R404A	R404A
Refrigerant Charge (lb-oz)	22-0	20-4	20-4
Water Cooled Data (Minimum Water Pressure 30 PSIG)			
Water Flow (GPM)	40	56	56
Water Pressure Drop (PSIG)	20-25	15-20	15-20
Design Inlet Cooling Water Temperature (°F)	85	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	85 / 55	85 / 55
Condensing Temperature (°F)	105	105	105
Inlet/Outlet Water Connection (NPT)	1 1/2"	1 1/2"	1 1/2"



Nirvana Cycling Refrigerated Dryers 6000 - 7200 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Air Cooled

Model Name	NVC6000	NVC7200
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)	6000	7200
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	40.5	47.4
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	93.70	97.00
Maximum Fuse Size (amps)	110.00	110.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	110	110
Depth (in)	98	98
Height (in)	102	102
Shipping Weight (lbs)	9870	9950
General Data		
Air Inlet / Outlet Connections (in)	10	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<85	
Condensate Drain Connection	(3) 1/2"	
Condenser Airflow (cfm)	19,350	19,350
Heat Rejection (btuh)	439,695	439,695
Refrigerant Compressor (HP)	13.5	13.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	52-8	52-8
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	N/A	N/A
Water Pressure Drop (PSIG)	N/A	N/A
Design Inlet Cooling Water Temperature (°F)	N/A	N/A
Max/Min Inlet Cooling Water Temperature (°F)	N/A	N/A
Condensing Temperature (°F)	N/A	N/A
Inlet/Outlet Water Connection (NPT)	N/A	N/A



Nirvana Cycling Refrigerated Dryers 6000 - 7200 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Water Cooled

Model Name	NVC6000	NVC7200
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)	6000	7200
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	31.1	34.2
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	64.50	67.40
Maximum Fuse Size (amps)	80.00	85.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	110	110
Depth (in)	98	98
Height (in)	102	102
Shipping Weight (lbs)	9700	9950
General Data		
Air Inlet / Outlet Connections (in)	10	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<75	
Condensate Drain Connection	(3) 1/2"	
Condenser Airflow (cfm)	N/A	N/A
Heat Rejection (btuh)	429,750	429,750
Refrigerant Compressor (HP)	10.5	10.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	30-6	30-6
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	84	84
Water Pressure Drop (PSIG)	15-20	15-20
Design Inlet Cooling Water Temperature (°F)	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	85 / 55
Condensing Temperature (°F)	105	105
Inlet/Outlet Water Connection (NPT)	2"	2"



Nirvana Cycling Refrigerated Dryers 8000 - 9600 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Air Cooled

Model Name	NVC8000	NVC9600
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)	8000	9600
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	54.0	63.2
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	122.70	127.10
Maximum Fuse Size (amps)	125.00	150.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	143	143
Depth (in)	99	99
Height (in)	103	103
Shipping Weight (lbs)	12410	12490
General Data		
Air Inlet / Outlet Connections (in)	12	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<85	
Condensate Drain Connection	(4) 1/2"	
Condenser Airflow (cfm)	25,800	25,800
Heat Rejection (btuh)	586,260	586,260
Refrigerant Compressor (HP)	13.5	13.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	70-0	70-0
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	N/A	N/A
Water Pressure Drop (PSIG)	N/A	N/A
Design Inlet Cooling Water Temperature (°F)	N/A	N/A
Max/Min Inlet Cooling Water Temperature (°F)	N/A	N/A
Condensing Temperature (°F)	N/A	N/A
Inlet/Outlet Water Connection (NPT)	N/A	N/A



Nirvana Cycling Refrigerated Dryers 8000 - 9600 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Water Cooled

Model Name	NVC8000	NVC9600
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)	8000	9600
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	41.4	45.6
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	85.90	88.30
Maximum Fuse Size (amps)	100.00	100.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	143	143
Depth (in)	99	99
Height (in)	103	103
Shipping Weight (lbs)	13,020	13,350
General Data		
Air Inlet / Outlet Connections (in)	12	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<75	
Condensate Drain Connection	(4) 1/2"	
Condenser Airflow (cfm)	N/A	N/A
Heat Rejection (btuh)	573,000	573,000
Refrigerant Compressor (HP)	10.5	10.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	40-8	40-8
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	112	112
Water Pressure Drop (PSIG)	15-20	15-20
Design Inlet Cooling Water Temperature (°F)	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	85 / 55
Condensing Temperature (°F)	105	105
Inlet/Outlet Water Connection (NPT)	2 1/2"	2 1/2"



Nirvana Cycling Refrigerated Dryers

12000 - 14400 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Air Cooled

Model Name	NVC12000	NVC14400
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)	12000	14400
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	79.0	94.8
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	157.20	187.30
Maximum Fuse Size (amps)	175.00	200.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	176	209
Depth (in)	101	101
Height (in)	103	103
Shipping Weight (lbs)	17685	24100
General Data		
Air Inlet / Outlet Connections (in)	14	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<85	
Condensate Drain Connection	(5) 1/2"	(6) 1/2"
Condenser Airflow (cfm)	32,250	38,700
Heat Rejection (btuh)	732,825	879,390
Refrigerant Compressor (HP)	13.5	13.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	87-8	105-0
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	N/A	N/A
Water Pressure Drop (PSIG)	N/A	N/A
Design Inlet Cooling Water Temperature (°F)	N/A	N/A
Max/Min Inlet Cooling Water Temperature (°F)	N/A	N/A
Condensing Temperature (°F)	N/A	N/A
Inlet/Outlet Water Connection (NPT)	N/A	N/A



Nirvana Cycling Refrigerated Dryers 12000 - 14400 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 5-Jun-15
Cancels: All Previous

Engineering Data - Water Cooled

Model Name	NVC12000	NVC14400
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)	12000	14400
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	57	68.4
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	104.20	124.00
Maximum Fuse Size (amps)	110.00	150.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	176	209
Depth (in)	101	101
Height (in)	103	103
Shipping Weight (lbs)	16,400	19,600
General Data		
Air Inlet / Outlet Connections (in)	14	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<75	
Condensate Drain Connection	(5) 1/2"	(6) 1/2"
Condenser Airflow (cfm)	N/A	N/A
Heat Rejection (btuh)	716,250	859,500
Refrigerant Compressor (HP)	10.5	10.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	50-10	60-12
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	140	168
Water Pressure Drop (PSIG)	15-20	15-20
Design Inlet Cooling Water Temperature (°F)	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	85 / 55
Condensing Temperature (°F)	105	105
Inlet/Outlet Water Connection (NPT)	3"	3"



Nirvana Cycling Refrigerated Dryers

16800 - 19200 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 12-Jul-13
Cancels: All Previous

Engineering Data - Air Cooled

Model Name	NVC16800	NVC19200
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)	16800	19200
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	110.6	126.4
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	CF	238.90
Maximum Fuse Size (amps)	CF	250.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	243	276
Depth (in)	101	101
Height (in)	104	104
Shipping Weight (lbs)	28350	32400
General Data		
Air Inlet / Outlet Connections (in)	16	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<85	
Condensate Drain Connection	(7) 1/2"	(8) 1/2"
Condenser Airflow (cfm)	45,150	51,600
Heat Rejection (btuh)	1,025,955	1,172,520
Refrigerant Compressor (HP)	13.5	13.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	122-8	140-0
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	N/A	N/A
Water Pressure Drop (PSIG)	N/A	N/A
Design Inlet Cooling Water Temperature (°F)	N/A	N/A
Max/Min Inlet Cooling Water Temperature (°F)	N/A	N/A
Condensing Temperature (°F)	N/A	N/A
Inlet/Outlet Water Connection (NPT)	N/A	N/A



Nirvana Cycling Refrigerated Dryers 16800 - 19200 SCFM

Industrial Technologies
Davidson, NC 28036

Date: 5-Jun-15
Cancels: All Previous

Engineering Data - Water Cooled

Model Name	NVC16800	NVC19200
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)	16800	19200
Pressure Drop (PSIG)	3.50	3.50
Electrical Data		
Installed Package Power (kW)	79.8	91.2
Electrical Supply	460-3-60	
Minimum Circuit Ampacity (amps)	147.70	159.40
Maximum Fuse Size (amps)	150.00	175.00
Electrical Protection Class	NEMA 1 (Optional NEMA 4)	
Weights & Dimensions		
Width (in)	243	276
Depth (in)	101	101
Height (in)	104	104
Shipping Weight (lbs)	23,000	26,400
General Data		
Air Inlet / Outlet Connections (in)	16	
Air Connection Type	FLG	
Max Operating Ambient Temp (°F)	113	
Max Operating Inlet Temp (°F)	120	
Min Operating Ambient Temp (°F)	35	
Max Operating Pressure (PSIG)	220	
Sound Level (dBA)	<75	
Condensate Drain Connection	(7) 1/2"	(8) 1/2"
Condenser Airflow (cfm)	N/A	N/A
Heat Rejection (btuh)	1,002,750	1,146,000
Refrigerant Compressor (HP)	10.5	10.5
Refrigerant Type	R404A	R404A
Refrigerant Charge (lb-oz)	70-14	81-0
Water Cooled Data (Minimum Water Pressure 30 PSIG)		
Water Flow (GPM)	196	224
Water Pressure Drop (PSIG)	15-20	15-20
Design Inlet Cooling Water Temperature (°F)	85	85
Max/Min Inlet Cooling Water Temperature (°F)	85 / 55	85 / 55
Condensing Temperature (°F)	105	105
Inlet/Outlet Water Connection (NPT)	4"	4"