QPNC/QRHT Series

QPNC: Non-Cycling Designs for Maximum System Efficiency

Non-Cycling Dryers 13 to 4200 CFM
Quincy refrigerated air dryers are manufactured to exact standards in state-of-the-art production facilities, featuring high-capacity, balanced component selection and consistent output. This, combined with a clean, simple design, creates an efficient, reliable and environmentally friendly non-cycling refrigerated air dryer. Quincy refrigerated air dryers allow plant equipment to run efficiently, and processes more reliably, by providing the cleanest compressed air utility possible. Payback starts immediately upon start up.

Environmentally Safe Refrigerants

- No CFC's or HCFC's
- EPA/SNAP Compliant
- Zero Ozone Depletion Potential (ODP)
- Qualifies for one LEED point
- Higher performance potential
- Higher efficiency potential

A Greener Choice

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

QRHT: High Temperature Refrigerated Dryer

Space Saving Refrigerated Dryer
QRHT Series Total Air System High Temperature Dryers integrate five different components that perform separate functions. An air-cooled aftercooler, refrigerated dryer, moisture separator, Zero Loss drain, coalescing filter and 180°F Inlet Temperature — these components work in harmony to ensure clean dry, filtered compressed air.

QPNC/QHRT Series

Refrigerant Air Dryers Are Best For:

- Moisutre free applications
- Avoiding corrosion to your system caused by moisture
- Preventing rotting in woodworking applications
- Extending the life of your compressor
- Low maintenance operations
- Saving on energy and upfront costs

QPNC TECHNICAL DATA (Non-Cycling)

Model	CFM at 100 PSIG	m3/hr 7 BAR	Standard Electrics		Pressure		Dimensions			Approx. Shipping Weight	Connections In/Out	Refrigerant Gas
			Volts/Phase (Hertz)	Full Load (kW)	Max PSIG	Nominal ΔP	Length (in)	Width (in)	Height (in)			
QPNC-13	13	22	230/1/60	0.16	232	2.2	19	14	18	57	1/2" NPT	R513a
QPNC-21	21	36	230/1/60	0.16	232	2.2	19	14	18	57	1/2" NPT	R513a
QPNC-30	30	51	230/1/60	0.19	232	2.9	19	14	18	60	1/2" NPT	R513a
QPNC-42	42	71	230/1/60	0.3	232	2.9	19	14	18	71	1/2" NPT	R513a
QPNC-64	64	109	230/1/60	0.38	232	2.9	19	14	18	75	1/2" NPT	R513a
QPNC-83	83	141	230/1/60	0.72	203	2.1	20	15	30	113	1" NPT	R513a
QPNC-106	106	180	230/1/60	0.72	203	2.9	20	15	30	113	1" NPT	R513a
QPNC-127	127	216	230/1/60	0.79	203	2.6	22	18	31	143	1 1/2" NPT	R513a
QPNC-144	144	245	230/1/60	0.79	203	2.6	22	18	31	139	1 1/2" NPT	R513a
QPNC-184	184	313	230/1/60	0.88	203	2.9	22	18	31	143	1 1/2" NPT	R513a
QPNC-229	229	389	230/1/60	1.11	203	2.9	22	18	35	187	1 1/2" NPT	R513a
QPNC-271	271	460	230/1/60	1.29	203	3.7	23	23	35	198	1 1/2" NPT	R513a
QPNC-297	297	505	230/1/60	2	203	4.3	23	23	35	346	1 1/2" NPT	R513a
QPNC-354	354	601	230/1/60	2.67	203	2.3	41	32	38	379	2" NPT	R513a
QPNC-424	424	720	230/1/60	2.67	203	3.3	42	32	38	375	2" NPT	R513a
QPNC-530	530	900	230/1/60	2.75	203	2.6	42	32	38	390	2 1/2" NPT	R513a
QPNC-636	636	1081	230/1/60	3.8	203	2.6	42	32	38	388	2 1/2" NPT	R513a
QPNC-750	750	1275	230/1/60	5.81	203	3.6	40	44	63	562	3" NPT	R513a
QPNC-1000	1000	1700	230/1/60	6.03	203	4.3	40	44	63	772	3" NPT	R513a
QPNC-1250	1250	2125	230/1/60	6.75	203	5.0	40	44	63	800	3" NPT	R513a
QPNC-1600	1600	2720	230/1/60	7.84	203	4.3	40	44	72	915	4" Flange	R513a
QPNC-1800	1800	3060	230/1/60	9.43	203	4.3	40	60	72	1091	4" Flange	R513a
QPNC-2200	2200	3740	230/1/60	9.5	203	3.6	40	60	72	1193	4" Flange	R513a
QPNC-2500	2500	4250	230/1/60	9.71	203	3.6	57	78	72	1193	6" Flange	R513a
QPNC-3000	3000	5097	230/1/60	11.39	203	3.7	57	78	72	1918	6" Flange	R513a
QPNC-3500	3500	5946	230/1/60	12.81	203	3.9	57	78	72	1929	6" Flange	R513a
QPNC-4200	4200	7135	230/1/60	17.15	203	4.1	57	78	72	2117	6" Flange	R513a

Notes: Capacity in accordance with recommended NFPA, ISO, and CAGI standards. kW inputs are shown for air-cooled models including fan motors.

Correction Factors

Inlet Air Pressure Correction

	PSIG	60	80	100	120	140	150	180	200
A	QPNC 13-3000 Factor	0.79	0.93	1.0	1.03	1.07	1.09	1.12	1.14

Ambient Air Temperature Correction

	Temp.°F	80	90	100	109
C	QPNC 13 - 636 Factor	1.0	0.91	0.81	0.71
	QPNC 750 - 3000 Factor	1.15	1.07	1.0	0.91

Inlet Air Temperature Correction

	Temp.°F	80	100	110	120	131
B	QPNC 13 - 636 Factor	1.05	1.0	0.87	0.67	0.49
	QPNC 750 - 3000 Factor	1.05	1.0	0.84	0.69	0.51

Dew Point Correction

	Temp.°F	37-39°F	45-50°F
D	QPNC 13 - 636 Factor	1	1.12
	QPNC 750 - 3000 Factor	1	1.2

QHRT TECHNICAL DATA (High Temperature)

Model	CFM at 100 PSIG	Voltage	Power Consumption kW	Max PSIG	Refigerant	Dimensions			Approx. Wt. lb.	Connections (inches)
						Length (inches)	Width (inches)	Height (inches)		
QRHT 25	25	115/1/60	0.42	232	R513a	20	13.8	17.5	58	0.5 NPT
QRHT 50	50	115/1/60	0.84	232	R513a	22.6	18.1	31	109	1 NPT
QRHT 75	75	115/1/60	1.53	232	R513a	22.6	18.1	41	233	0.75 NPT
QRHT 100	100	115/1/60	1.63	232	R513a	22.6	18.1	41	233	0.75 NPT
QRHT 125	125	115/1/60	2.02	232	R513a	22.6	18.1	41	238	0.75 NPT

Notes: Instrumentation includes: On/off switch, refrigerant suction pressure gauge and drain test button. Coalescing filter is supplied for all models.

Inlet Flow SCFM

Model	50°F PDP	40°F PDP
QRHT 25	25	20
QRHT 50	50	40
QRHT 75	75	60
QRHT 100	100	80
QRHT 125	125	100

WARRANTY INFORMATION

2-YEARS

2-Year Standard Factory Warranty

Twenty-four (24) months from date of shipment from the factory. The package warranty covers all parts and labor on the dryer package.

Heat Exchanger - Ten (10) year from date of shipment from the factory. The ten (10) years of heat exchanger warranty coverage are for parts only.

Parts - Ninety (90) days from date of Distributor sale or twelve (12) months from date of factory shipment, whichever occurs first. No labor, travel time or mileage will be covered for parts.