



Refrigerated Air Dryers

QUINCY QPNC SERIES | NON-CYCLING QUINCY QRHT SERIES | HIGH TEMP







REFRIGERATED AIR DRYERS

NON-CYCLING DESIGNS FOR MAXIMUM SYSTEM EFFICIENCY

NON-CYCLING DRYERS 10 TO 3000 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





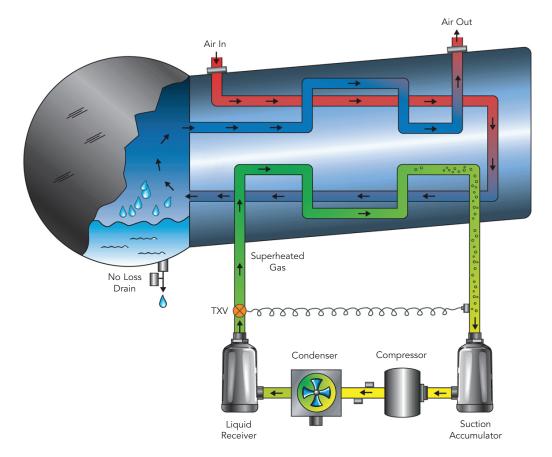
QPNC — NON-CYCLING DRYER OPERATION

Quincy Non-Cycling dryers use a two-stage heat exchanger system to maintain consistent dew points. Freeze-ups are prevented and optimum performance is maintained by integrating the highest quality components and refrigeration controls into our system.

The system reduces the temperature of the compressed air to approx. +39°F forcing entrained moisture to condense. The mixture of condensed liquids and cold air then flow into the cold point moisture separator where the liquids are collected and removed by a Zero Loss condensate drain. The Zero Loss drain ensures maximum moisture removal while saving energy.

Once liquids have been removed, the cold dry compressed air returns through the cold side of the first stage heat exchanger where it is reheated by the warm incoming air. Pipe sweating is avoided and air volume is increased by reheating.

The compressed air is now considered treated and ready for delivery to downstream products.



Non-Cycling Flow Schematic

REFRIGERATED AIR DRYERS

EASE OF OPERATION

Non-cycling Control Panel 10-250 cfm



- Refrigerant System Flow
- Run & Alarm Indicator Lights
- Analyzer Gauge
- Schematic
- Stop / Start Switch with Lock Out

Non-cycling Control Panel 360–3000 cfm



SAVING ENERGY

Quincy QPNC dryers from 10 to 3000 cfm come standard with the most energy efficient ZERO LOSS DRAINS.



HEAT EXCHANGERS & MOISTURE SEPARATORS

- Low pressure drop
- Cold Air Module (QPNC 75 -3000)
- Brazed Plate (QPNC 10 50)
- Integrated Moisture Separator
- Five step centrifugal separation
- 10-Year Heat Exchanger Warranty





QPNC — SPECIFICATIONS & ENGINEERING DATA

Non-Cycling			— Standard E		essure —		Dimensior		Annevinate			
Model	cfm @ 100 psig	m³/hr 7 bar	Standard E Volts/Phase Hertz	Full Load kW	Max Prig	essure — Nominal ΔP	L In.	W In.	H In.	Approximate Shipping Wt. lb.	Connections In/Out	Refrigerant Gas
QPNC 10	10	17	115/1/60	0.2	230	1.5	21	14	20	57	0.5" NPT (M)	R134a
QPNC 15	15	25	115/1/60	0.2	230	2.2	21	14	20	59	0.5" NPT (M)	R134a
QPNC 25	25	42	115/1/60	0.3	230	2.9	21	14	20	70	0.5" NPT (M)	R134a
QPNC 35	35	59	115/1/60	0.3	230	2.9	21	14	20	75	0.5" NPT (M)	R134a
QPNC 50	50	85	115/1/60	0.4	230	2.9	21	14	20	75	0.5" NPT (M)	R134a
QPNC 75	75	127	115/1/60	0.7	230	2.9	23	18	31	112	1" NPT (F)	R404A
QPNC 100	100	170	115/1/60	0.9	200	2.2	25	19	32	134	1.5" NPT (F)	R404A
QPNC 125	125	212	115/1/60	1.0	200	2.9	25	19	32	150	1.5" NPT (F)	R404A
QPNC 150	150	255	208-230/1/60	1.5	200	1.5	26	23	36	198	1.5" NPT (F)	R404A
QPNC 200	200	340	208-230/1/60	1.6	200	2.9	26	23	36	198	1.5" NPT (F)	R404A
QPNC 250	250	425	460/3/60	1.9	200	3.6	26	23	36	198	1.5" NPT (F)	R404A
QPNC 300	300	510	460/3/60	2.3	188	3.6	38	29	40	282	2" NPT (F)	R410A
QPNC 360	360	612	460/3/60	2.6	188	4.3	38	29	40	322	2.5" NPT (F)	R410A
QPNC 500	500	850	460/3/60	3.2	188	4.3	38	29	40	348	2.5" NPT (F)	R410A
QPNC 600	600	1020	460/3/60	4.3	188	4.3	38	29	40	364	2.5" NPT (F)	R410A
QPNC 750	750	1275	460/3/60	5.4	188	3.6	41	41	61	717	3" NPT (M)	R404A
QPNC 1000	1000	1700	460/3/60	5.8	188	4.3	41	41	61	739	3" NPT (M)	R404A
QPNC 1250	1250	2125	460/3/60	7.3	188	5.0	41	41	61	772	3" NPT (M)	R404A
QPNC 1600	1600	2720	460/3/60	12.7	188	4.3	41	41	61	812	3" NPT (M)	R404A
QPNC 1800	1800	3060	460/3/60	13.7	188	4.3	41	83	61	1235	6" Flange	R404A
QPNC 2200	2200	3740	460/3/60	19.2	188	3.6	41	83	61	1323	6" Flange	R404A
QPNC 2500	2500	4250	460/3/60	19.2	188	3.6	41	83	61	1323	6" Flange	R404A
QPNC 3000	3000	5097	460/3/60	22.3	188	3.7	41	83	61	1433	6" Flange	R404A

Notes: Capacity in accordance with recommended NFPA standards and CAGI standard ADF 100. Ratings based on 100°F inlet temperature, 100 psig inlet pressure and 100°F max ambient.

kW inputs are shown for air cooled models including fan motors.

CORRECTION FACTORS

Inl	et Air Pressure Correction								
А	PSIG QPNC 10 - 3000 Factor	<mark>60</mark> 0.79	<mark>80</mark> 0.93	100 1	120 1.03	140 1.07	150 1.09	180 1.12	200 1.14
Inl	et Air Temperature Correc	tion							

Ambient Air Temperature Correction								
	Temp.°F	80	90	100	110			
С	QPNC 10 - 250 Factor QPNC 325 - 3000 Factor	1.12 1.15	1.03 1.07	1	0.92 0.91			
De	w Point Correction							
De	w Point Correction Temp.°F OPNC 10 - 250 Factor	37–39°	°F 4	15–50°F				

Example One: Conditions Requirement						
Capacity Inlet Pressure	480 cfm					
Inlet Pressure	120 psig 110°F					
Inlet Air Temp.						
Ambient Temp.	100°F					
Dew Point	39°F					

Example One: Ca	licula	tions
Dryer Required	=	cfm required (A) x (B) x (C) x (D)
	=	480 (1.03) x (.84) x (1) x (1)
	=	555 cfm dryer required
Select QPNC 600	for th	is application

Example Two: Cor QPNC 500 Corrected	
Inlet Pressure Inlet Air Temp.	120 psig 110°F
Ambient Temp.	90°F
Dew Point	39°F

Example Two: Calc	ula	tions
Corrected Capacity	=	Std. Capacity x (A) x (B) x (C) x (D)
	=	500 x (1.03) x (.84) x (1.07) x (1)
	=	463 cfm



QPNC-25 Non-Cycling Dryer

REFRIGERATED AIR DRYERS

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, and coalescing filter. These five components work in harmony to ensure clean dry, filtered compressed air.

- 180°F Inlet Temperature
- 3-in-1 Design
- Eliminates Water, Oil and Dirt from Air
- Prevents Damage to Pneumatic Tools
- Fewer Finished Product Defects
- Prevents "Fisheye" Paint Splotches
- Reduces Operational Downtime
- Increase Profitability and Productivity
- Eliminates Air Line Purging



QRHT — SPECIFICATIONS & ENGINEERING DATA

High T		ature	Power			[Dimensio	ns		
Model	cfm @ 100 psig	Voltage	Consumption Kw	Max psig	Refrigerant	L In.	W In.	H In.	Approx Wt. lb.	Connections In.
QRHT 25	5 25	115/1/60	.4	232	R134a	20.4	13.8	17.7	57	^{1/2} " NPT
QRHT 50) 50	115/1/60	.8	232	R404A	22.6	18.1	31	108	1 NPT
QRHT 75	5 75	115/1/60	1.6	232	R404A	22.6	18.1	31	168	^{3/4"} NPT
QRHT 10	00 100	115/1/60	1.7	232	R404A	22.6	18.1	41	231	^{3/4"} NPT
QRHT 12	25 125	115/1/60	2.0	232	R404A	22.6	18.1	41	236	^{3/4"} 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		20							
QRHT 50) 50	40							
QRHT 75	75	60							
QRHT 10		80							
QRHT 12	5 125	100							

SCFM flow is rated at 180°F max. inlet, 100 psig and 100°F ambient



THE QUINCY PROMISE

Quincy Compressor and its partnering distributors promise to provide you with uncompromising reliability in all Quincy equipment. This makes your compressed air system one less thing that you need to worry about, allowing you to focus on your company's productivity and profitability.



THE QUINCY SOLUTION

Operating at peak efficiency and providing quality product is a priority for many of our customers. Quincy Compressor in partnership with our global network of authorized distributors strives to be your provider for all of your compressed air system needs. From the air compressor to filtration to dryers and storage solutions, Quincy Compressor is your single source provider for all of your compressed air system needs.

Air Compressors

Quincy Compressor is a premier manufacturer of many different types of air compressors designed for a variety of applications using different compression technologies.

The **Quincy QT** is a Reciprocating Splash Lubricated compressor for tough everyday use. The **Quincy QP** is a reciprocating fully pressure lubricated compressor for a competitive advantage. The **Quincy QR** is a reciprocating compressor designed for the most demanding conditions. The **Quincy QGS 5-30 HP** is a heavy-duty belt driven rotary compressor at a competitive price. The **Quincy QSI** provides an industrial grade premium fixed speed rotary screw air compressor. The **Quincy QGV** provides a premium variable speed rotary screw air compressor designed to optimize your energy efficiency.

Compressed Air Treatment

Quincy Compressor is your single-source provider of compressed air treatment products to complement your air compressor. Quincy provides refrigerated air dryers, desiccant air dryers, compressed air filtration from 5 to .01 micron, condensate drains, condensate management systems, storage solutions, and flow control valves. Quincy Compressor is truly a single-source provider for all of your compressed air needs.

Genuine Parts

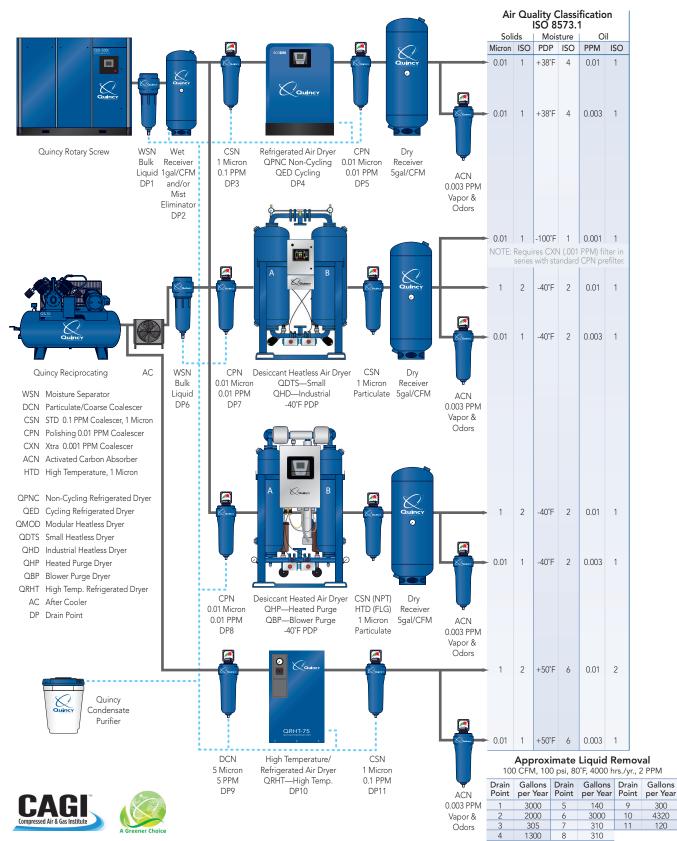
Genuine Parts from Quincy Compressor keep your equipment running like new. When servicing your Quincy compressor, insist on Genuine Quincy parts. Not only will you save time and money, but you will gain the peace-of-mind from using only the highest quality parts worthy of the Quincy name.

System Controls

Whether you have one air compressor or many air compressors from different manufacturers, Quincy Compressor provides you with a way to control and monitor all of your system components in your compressed air system in a way that maximizes your energy efficiency. Whether you need to control your system on site or from half way around the world, Quincy Compressor is your source for reliable, efficient controls.

COMPRESSED AIR SYSTEMS BEST PRACTICE





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