# Technical Data Sheets
## QPNC 144-636 (60hz)

| | QPNC-144 (E7.5) | QPNC-184 (E8) | QPNC-229 (E9) | QPNC-271 (E10) | QPNC-297 (B10S) | QPNC-354 (E11) | QPNC-424 (E12) | QPNC-530 (E13) | QPNC-636 (E14) |
|---|---|---|---|---|---|---|---|---|---|
| | 115 V (1 ph) | 115 V (1 ph) | 230 V (1 ph) | 230 V (1 ph) | 460 V (3 ph) | 460 V (3 ph) | 460 V (3 ph) | 460 V (3 ph) | 460 V (3 ph) |
| **REFERENCE CONDITIONS** | | | | | | | | | |
| Inlet Air Temperature (°F) | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Inlet Air pressure (psi(g)) | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 |
| Ambient air temperature (°F) | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 |
| Pressure dewpoint (°F) | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Volume flow (cfm) | 144 | 184 | 229 | 271 | 297 | 354 | 424 | 530 | 636 |
| **REFERENCE CONDITIONS** | | | | | | | | | |
| Inlet Air Temperature (°F) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Inlet Air pressure (psi(g)) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Ambient air temperature (°F) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Pressure dewpoint (°F) | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Volume flow (cfm) | 140 | 175 | 200 | 225 | 250 | 300 | 360 | 500 | 600 |
| **LIMITATIONS** | | | | | | | | | |
| Minimum ambient temperature (°F) | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| Maximum air inlet temperature (°F) | 131 | 131 | 131 | 131 | 131 | 140 | 140 | 140 | 140 |
| Maximum compressed air inlet pressure (bar(g)) | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 |
| Maximum ambient temperature (°F) | 109 | 109 | 109 | 109 | 109 | 115 | 115 | 115 | 115 |
| **PERFORMANCE DATA** | | | | | | | | | |
| Total electrical power input (kW) | 0.78 | 0.93 | 1.11 | 1.29 | 2 | 1.7 | 2.65 | 2.7 | 3.6 |
| Fan(s) electrical power input (kW) | 0.11 | 0.11 | 0.19 | 0.19 | 0.29 | 0.21 | 0.78 | 0.78 | 1.1 |
| Pressure drop over dryer (psi) | 2.6 | 2.9 | 2.9 | 3.7 | 4.3 | 2.3 | 3.3 | 2.6 | 2.6 |
| Cooling air flow (approx.) (cfm) | 642 | 784 | 1521 | 1521 | 1521 | 1836 | 3531 | 3531 | 5202 |
| Heat dissipated by cooling medium (approx) (kW) | 2.27 | 2.9 | 3.33 | 4.15 | 4.5 | 5.25 | 6.34 | 7.78 | 9.17 |
| **DESIGN DATA** | | | | | | | | | |
| Refrigerant type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Refrigerant amount (lbs) | 1.32 | 1.32 | 1.76 | 1.65 | 2.43 | 3.31 | 3.31 | 4.08 | 4.3 |
| Shipping weight (lbs) | 143 | 143 | 187 | 187 | 198 | 346 | 375 | 390 | 390 |
| Canopy length (in) | 21.9 | 21.9 | 23.1 | 23.1 | 23.8 | 42.1 | 42.1 | 42.1 | 42.1 |
| Canopy width (in) | 18.1 | 18.1 | 22.8 | 22.8 | 22.8 | 31.7 | 31.7 | 31.7 | 31.7 |
| Canopy heigth (in) | 31.1 | 31.1 | 35.4 | 35.4 | 35.4 | 37.9 | 37.9 | 37.9 | 37.9 |
| Inlet and outlet connections (NPT) | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2" | 2-1/2" | 2-1/2" |