

COMPRESSOR DATA SHEET

Rotary Compressor: Variable Frequency Drive

| Compressed All & dds INSULUEat specified conditionsVolume Flow RateConsumptionPower $\frac{m^3 / min}{Below 0.5}$ $\frac{ft3 / min}{Below 15}$ $\frac{+/-7}{+-8}$ $\frac{+/-8}{+-7}$ $\frac{+/-8}{+-7}$ 0.5 to 1.51.5 to 50 $\frac{+/-6}{+-6}$ $\frac{+/-7}{+-8}$ $\frac{+/-10\%}{+-10\%}$ | | MODE | L DATA - FOR CO | MPRESSED AIR | |] |
|---|---|--|---|---|--|---------------------------|
| 2 Air-cooled Type: Screw 3 Rated Operating Pressure 145 psig ³ 4 Drive Motor Nominal Rating 35 hp 5 Drive Motor Nominal Rating (if applicable) 1.48 hp 7 Fan Motor Nominal Rating (if applicable) 1.48 hp 7 Fan Motor Nominal Rating (if applicable) 1.48 hp 7 Fan Motor Nominal Rating (if applicable) 1.48 hp 7 Fan Motor Nominal Rating (if applicable) 1.48 hp 8# Drive Motor Nominal Rating (if applicable) 1.48 hp 9 Total Proceent Specific Power (kW100 acfin) ⁴ Specific Power (kW100 acfin) ⁴ 8# 23.0 101.6 22.44 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Prockage Input Power at Zero Flow ^{1,4} 0.0 kW 10 Jup | 1 | Manufacturer: | Chicago Pneumatic | | | |
| Image: Control Processor (1) Image: Control Processor (1) Image: Control Processor (1) 3 Rated Operating Pressure 145 psig 4 Drive Motor Nominal Rating (1) 35 hp 5 Drive Motor Nominal Efficiency 92.4 percent 6 Fan Motor Nominal Efficiency 92.4 percent 7 Fan Motor Nominal Efficiency 84 percent 8 Drive Motor Nominal Efficiency 84 percent 9 Input Power (kW) Capacity (acfm) rd Specific Power (kW) 8* 28.0 123.2 22.73 23.0 101.6 22.64 17.4 74.8 23.26 9* Total Package Input Power at Zero Flow ⁽⁻¹⁾ 0.0 kW 10 Image: Control Package Input Power at Zero Flow ⁽⁻¹⁾ 0.0 kW 10 Image: Control Package Input Power at Zero Flow ⁽⁻¹⁾ 0.0 kW 10 Image: Control Package Input Power at Zero Flow ⁽⁻¹⁾ 0.0 kW 10 Image: Control Package Input Power at Zero Flow ⁽⁻¹⁾ 0.0 kW 10 Image: Control Pa | | Model Number: | CPVSD 35 | Date: | Jan-19 | |
| Image: Second | 2 | x Air-cooled Water-cooled | | Type: | Screw | |
| 3 Rated Operating Pressure 145 psight 4 Drive Motor Nominal Rating 35 hp 5 Drive Motor Nominal Efficiency 92.4 percent 6 Fan Motor Nominal Efficiency 92.4 percent 7 Fan Motor Nominal Efficiency 84 percent 7 Fan Motor Nominal Efficiency 84 percent 8* 28.0 123.2 22.73 23.0 101.6 22.64 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{2,4} 0.0 kW 10 0 0 kW 0 kW 10 0 0 kW 0 kW kW 10 0 0 kW KW KW KW KW 10 0 0 0 kW KW KW KW KW 10 0 0 0 KW KW KW KW KW 10 0< | | v Oil-injected Oil-free | | | 1 | |
| 4 Drive Motor Nominal Rating 35 hp 5 Drive Motor Nominal Efficiency 92.4 percent 6 Fan Motor Nominal Efficiency 84 percent 7 Fan Motor Nominal Efficiency 84 percent 7 Fan Motor Nominal Efficiency 84 percent 8 28.0 123.2 22.73 10 33.6 Max 145.4 23.11 8* 28.0 123.2 22.73 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{E,d} 0.0 kW 10 10 10 10 10 | 3 | • • • | | | nsig ^b | |
| 5 Drive Motor Nominal Efficiency 92.4 percent 6 Fan Motor Nominal Efficiency 84 percent 7 Fan Motor Nominal Efficiency 84 percent 8 28.0 Capacity (acfm) ⁴⁴ Specific Power (WW100 acfm) ⁴¹ 8* 28.0 123.2 22.73 23.0 101.6 22.64 17.4 74.8 23.0 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6,d} 0.0 kW 10 0 0 kW 0 kW 10 0 500 150 150 150 150 10 0 500 500 150 150 150 150 10 0 500 500 150 150 150 150 150 10 0 500 500 150 150 150 150 10 0 500 500 150 150 150 150 10 0 500 150 <t< td=""><td></td><td colspan="2"></td><td></td><td></td><td></td></t<> | | | | | | |
| 6 Fan Motor Nominal Rating (if applicable) 1.48 hp 7 Fan Motor Nominal Efficiency 84 percent 8 28.0 Capacity (acfm) ⁶⁴ Specific Power (kW/ location) ⁶⁴ 8* 28.0 123.2 22.73 23.0 101.6 22.64 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6.4} 0.0 kW 10 0 0 kW 0 0 kW 10 0 0 kW 0 0.0 kW 10 0 0.0 kW 10 0 0 0 kW 0 0 kW 10 0 0.0 kW 10 0 0 kW 10 0 10 10 0 0 kW 10 | | | | | | |
| 7 Fan Motor Nominal Efficiency 84 percent 10 10 Specific Power (kW/100 acfm) rd Specific Power (kW/100 acfm) rd 8* 23.0 101.6 22.64 17.4 74.8 23.20 9* Total Package Input Power at Zero Flow ^{c,d} 0.0 kW 9* Total Package Input Power at Zero Flow ^{c,d} 0.0 kW 10 10 10 2000 100 100 100 10 100 2000 100 12.0 18.0 17.9 10 100 2000 100 12.0 19.0 17.9 10 100 2000 100 12.0 19.0 17.9 10 100 2000 100 12.0 19.0 17.9 100 100 100 12.0 19.0 17.9 19.0 17.9 100 100 100 100 12.0 19.0 17.9 19.0 17.9 100 100 100 100 12.0 19.0 17.9 19.0 1 | | | | | • | |
| Imput Power (kW) Capacity (acfm) ^{ad} Specific Power (kW/100 acfm) ^d 8* 33.6 Max 145.4 23.11 8* 28.0 123.2 22.73 9 23.0 101.6 22.64 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6.d} 0.0 kW 10 5500 | | | | | | |
| $\frac{33.6 \qquad Max \qquad 145.4 \qquad 23.11}{123.2 \qquad 22.73}}$ 8* 28.0 101.6 22.64 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6,d} 0.0 kW 0 0 0 0 0 0 0 0 0 0 0 0 0 | / | | | | Specific Power | |
| 8* 28.0 123.2 22.73 9.9 101.6 22.64 17.4 74.8 23.26 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6,4} 0.0 kW 10 500 500 0.0 kW 10 500 500 70 100 10 90 500 500 70 100 100 100 10 500 500 70 100 | 8* | 33.6 Max | | 145.4 | ` | |
| Image: state of the second | | | | | | |
| $\frac{17.4}{9.9} \frac{74.8}{10.0} \frac{23.26}{9.9.82}$ 9* Total Package Input Power at Zero Flow ^{6, d} 0.0 kW $\frac{9}{9}$ 10 $\frac{10}{10}$ 10 $\frac{10}{90}$ 10 $\frac{10}{90}$ 10 $\frac{10}{90}$ 10 $\frac{10}{100}$ 10 | 0 | | | | | |
| 9.9 Min 33.2 29.82 9* Total Package Input Power at Zero Flow ^{6, d} 0.0 kW 10 1 | | | | | | |
| 9* Total Package Input Power at Zero Flow ^{c,d} 0.0 kW 10 33.00 30.00 30.00 30.00 30.00 10 10 10 10 10.00 12.0 10.00 12.0 10.00 12.0 10.00 12.0 10.00 12.0 10.00 12.0 10.00 12.0 10.00 17.00 10.00 17.00 10.00 17.00 | | | | 33.2 | 29.82 | |
| 10 | 9* | Total Package Input P | ower at Zero Flow ^{c, d} | | | |
| Consult CAGI website for a list of participants in the third party verification program: www.cagi.org NOTES: a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; acfm is actual cubic feet per minute at inlet conditions. Member b. The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet. c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report. d. Tolerance is specified in ISO 1217, Annex E, as shown in table below: NOTE: The terms "power" and "energy" are synonymous for purposes of this document. Volume Flow Rate Volume Flow Rate 0.5 to 1.5 15 to 50 Below 0.5 Below 15 tif. tif. 0.5 to 1.5 15 to 50 tif. tif. | 10 | 25.00 25.00 20.00 15.00 10.00 0.0 | Capac Note: Graph is only a visual r Note: Y-Axis Scale, 10 to 35, + 5kW | city (ACFM) epresentation of the data in Sect //100acfm increments if necessary | tion 8 | |
| 1.5 to 15 50 to 500 +/- 5 +/- 6 ROT 031 Above 15 Above 500 +/- 4 +/- 5 | Consult of NOTES Member Compressed Air & Gas Institu | CAGI website for a list of part a. Measured at the disch ISO 1217, Annex E; b. The operating pressur c. No Load Power. In a manufacturer may sta d. Tolerance is specified NOTE: The terms "p Volument at specent $\frac{m^3 / min}{Below 0.5}$ 0.5 to 1.5 1.5 to 15 | ticipants in the third party venticipants in the third party venticipants in the third party venticipants is actual point of the compact of the compact of the capacity and E the cordance with ISO 1217, And the "not significant" or "0" on the "not significant" or "0" or "0" on the "10" or "0" or " | Prification program: appressor package in accordations. lectrical Consumption were nex E, if measurement of not the test report. by mous for purposes of this of Volume Flow Rate % +/- 7 +/- 6 +/- 5 | www.cagi.org ance with e measured for this data sheet. o load power equals less than 1 document. Specific Energy Consumption % +/- 8 +/- 7 +/- 6 | %, No Load / Zero Flow |