

# KSI ECOTROC® Refrigerated dryer KTA-S

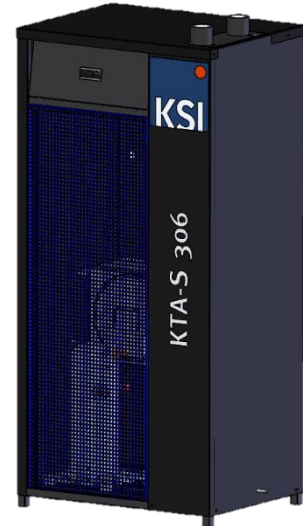


## Data sheet for refrigerated dryer KTA-S 176

Rev 01\_0626

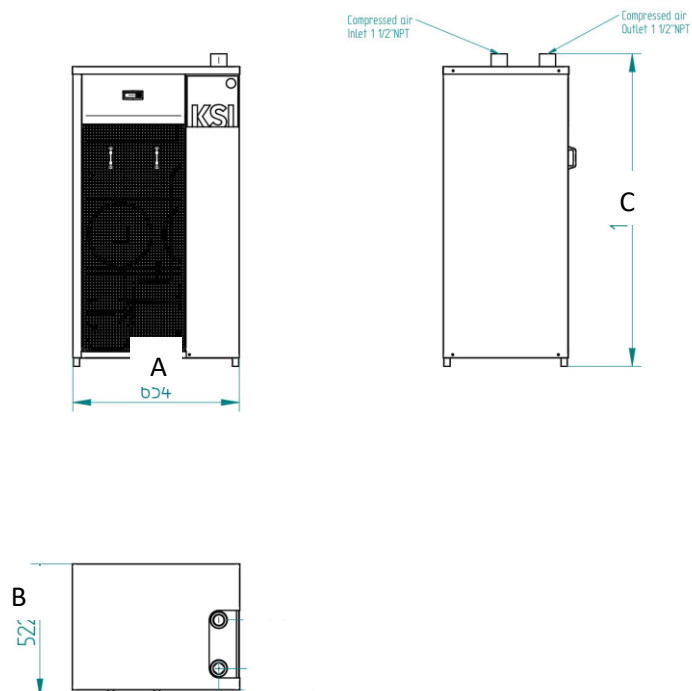
### Technical specification

|                                        |                                |
|----------------------------------------|--------------------------------|
| Nominal capacity @ 101 psi; 95°F inlet | 176 cfm                        |
| Connection                             | 1 1/2" NPT                     |
| Pressure dew point                     | 37°F                           |
| Cooling mechanism                      | air-cooled                     |
| Heat exchanger technology              | tube-in-tube vertical          |
| Heat exchanger material                | copper                         |
| Operating pressure                     | 58 psi – 232 psi               |
| Differential pressure                  | 2 psi                          |
| Ambient temperature                    | 39°F – 122°F                   |
| Power supply                           | 230 V / 1 Ph / 60 Hz           |
| Control voltage                        | 230 V / 1 Ph / 60 Hz           |
| Power consumption                      | 1.19 kW                        |
| Electrical load                        | 1.4825 kVA                     |
| Refrigerant                            | R513A                          |
| Controller                             | E33 controller                 |
| Condensate drain                       | time-controlled solenoid valve |



### Dimensions

|        |         |
|--------|---------|
| A      | 24.0"   |
| B      | 25.9"   |
| C      | 48.4"   |
| Weight | 198 lbs |



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| Correction factors |       |      |      |      |      |      |      |      |      |
|--------------------|-------|------|------|------|------|------|------|------|------|
| Inlet              | °F    | 86   | 95   | 104  | 113  | 122  | 140  |      |      |
| temperature        | F(t1) | 1.29 | 1    | 0.92 | 0.78 | 0.65 | 0.45 |      |      |
| Ambient            | °F    | 68   | 77   | 86   | 95   | 104  | 122  |      |      |
| temperature        | F(t2) | 1.05 | 1    | 0.98 | 0.93 | 0.84 | 0.70 |      |      |
| Operating          | psi   | 58   | 87   | 101  | 116  | 145  | 160  | 174  | 203  |
| pressure           | F(p)  | 0.8  | 0.94 | 1    | 1.04 | 1.11 | 1.14 | 1.16 | 1.22 |
|                    |       |      |      |      |      |      |      |      | 1.25 |

Pressure dew-point 3° C calculated to volume flow at a suction condition of 68 °F and 14.5 psi (abs.). Multiply the volume flow of the dryer with the corrections factors in the tables above.

Sample: Capacity KTA-S176 at inlet temperature 104 °F, ambient temperature 86 °F, operating pressure 87 psi • capacity nom (176 cfm) x F(t1) (0.92) x F(t2) (0.98) x F(p) (0.94) = Capacity corrected (149 cfm)