# Donaldson BOFA™

## TCU
Temperature Control Unit

## Datasheet
Technical Specification and Product Information

## A temperature control unit for solder paste printing.

The TCU has been designed specifically for solder paste printing. Using cooling and heating elements, it maintains the temperature within the printing environment for optimum paste performance.
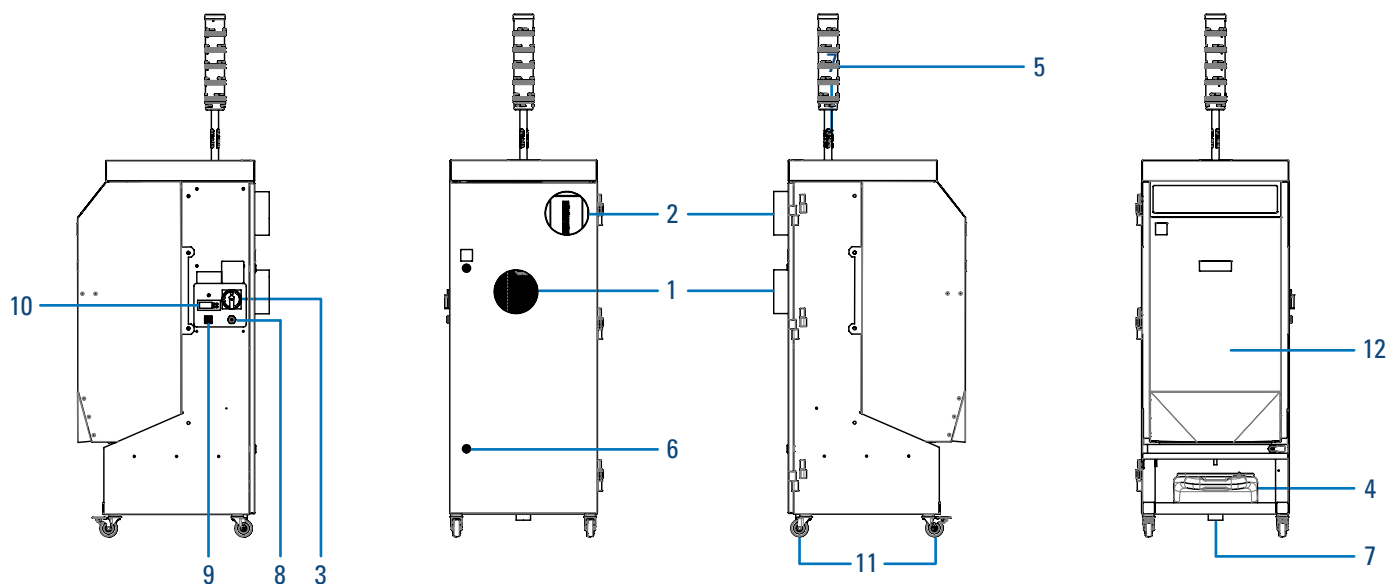
## FEATURES

- Small footprint
- Programmable temperature range
- Condensate collection container

Approvals: UKCA and CE
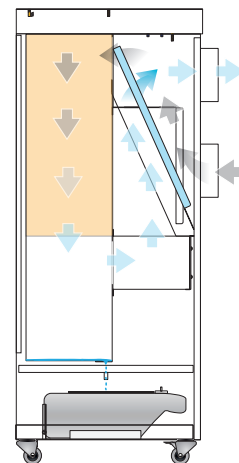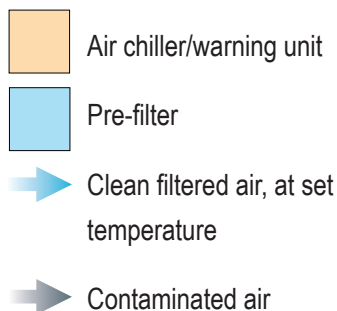
## TECHNICAL SPECIFICATION



1. Air inlet
2. Air outlet
3. On/off switch
4. Condensate collection container
5. Beacon
6. Service door lock
7. Fail style condensate sensor
8. Mains cable inlet
9. Signal cable inlet
10. PID controller
11. Castors
12. Chiller module

# TECHNICAL DATA

| | |
|---|---|
| Process temperature range | +/- 46 °F (8°C) of ambient within a programmable range of 66 °F (19°C) to 86 °F (30°C) |
| Process temperature control | +/- 34 °F (1°C) |
| Air delivery system | Recirculating |
| Cooling capacity | 2000 W |
| Temperature sensor | 0-10 VDC 32-122 °F (0-50°C) shared output from printer sensor |
| Refrigerant gas | R134a/0.75 kg |
| Electrical supply | 230 V +/- 10% |
| Full load current | 12.6 A |
| Start-up current | 20 A |
| Frequency | 50/60 Hz |
| Power supply cables | L= Brown, N= Blue, E= Green/Yellow |
| Noise level* | < 75 dB(A) |
| Weight | 220 lbs (100 kg) |
| Condensate | Collected in a 1.1 gallon (5 litre) container for disposal or diverted directly to a drainage system where available |

## AIRFLOW

Air chiller/warning unit

Pre-filter

Clean filtered air, at set temperature

Contaminated air

# FILTER SPECIFICATIONS

| Model | Surface media area (approx) | |
|---|---|---|
| | ft² | m² |
| Pre-filter | 8.93 | 0.83 |

| Dimensions**  (H x W x D) | |
|---|---|
| in | mm |
| 68.3 x 21.3 x 26.4 | 1735 x 540 x 670 |

# PART NUMBERS - FILTERS

| Pre-filter |
|---|
| 1UA1030305 |

* Noise level: At typical operating speed.

** Height including beacon

# PART NUMBERS - SYSTEM

| Description | Part number |
|---|---|
| Temperature Control Unit (TCU) 230 V | 1U2310-100 |

**Donaldson BOFA**

**UK & ROW**
Tel. +44 (0) 1202 699 444
Email. bofasales@donaldson.com
Web. donaldsonbofa.com

**Germany**
Email. bofavertrieb@donaldson.com

**USA**
Tel. +1 (618) 205 5007
Email. bofasalesus@donaldson.com