Better Solutions

AirJet®
AIR-BUBBLE
TECHNOLOGY

3
CHAMBERS

3
INDIVIDUAL
PROCESSES

STAINLESS
STEEL
DESIGN
AISI 304/316

TECHNICAL DATA SHEET

AirJet® 594 CRD-SAC
CUSTOMLINE

APPLICATION

- REFLOW AND SOLDERING PARTS
- CONFORMAL COATING

REMOVING

- FLUX RESIDUES
- COATING

GENERAL INFORMATION

CUSTOMLINE CLEANING SYSTEM

The **Customline section** is meant for customers who have specific requirements.

Together we will configure the cleaning system to achieve the highest efficiency and quality of cleaning according to your wishes and expectations.

DEVELOPED AND INTENDENT FOR RECOMMENDED

APPLICATION

- REFLOW AND SOLDERING PARTS
- CONFORMAL COATING

REMOVING

- **FLUX RESIDUES**
- **COATING**

CLEANING TECHNOLOGY

The AirJet® series cleaning systems represent unique **Air-bubling technology** developed and manufactured by DCT.
All three chambers can be used at the same time, which increases the cleaning capacity of the system and reduces cross-contamination compared to single-chamber systems.

CHAMBERS & PROCESSES

3 PROCESS CHAMBERS
3 PROCESSES - **CLEANING, RINSING, DRYING**

PROCESS CONTROL

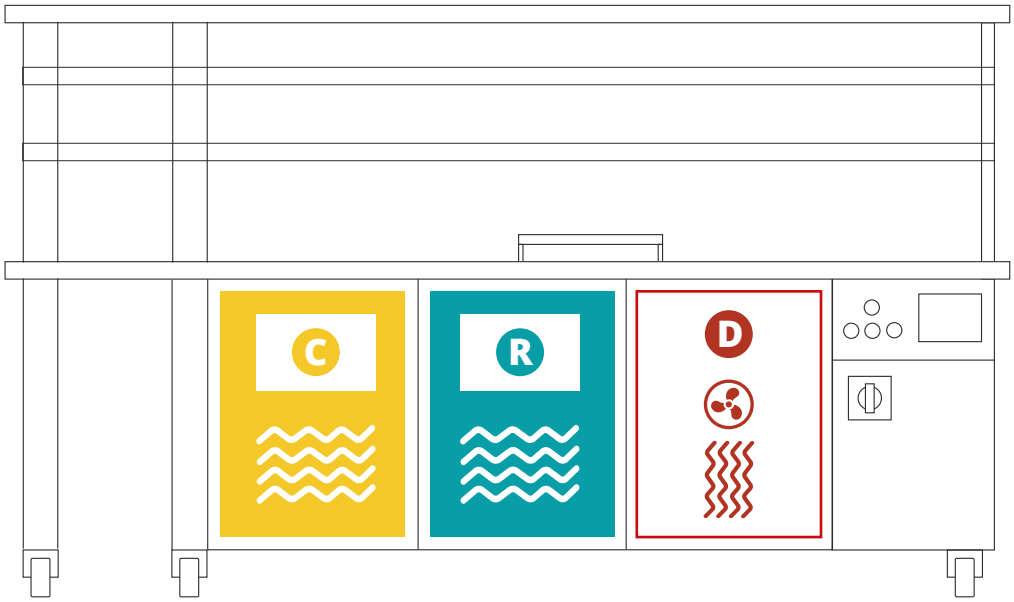
- **Liquid replacement notification** - cycle counting
- **Minimum level warning** - cleaning and rinsing fluid

Watch our video

3 PROCESS CHAMBERS

3 PROCESSES

- C CLEANING
- R RINSING
- D DRYING



CLEANING PARAMETRES

Cleaning Application	Suitability	Recommended processes temperature		Total usual process time	Capacity per 8 hours
Reflow and soldering parts	★	20 – 60°C	86 – 122 °F	35 min.	192 **
Conformal coating	★	20 – 60°C	86 – 122 °F	35 min.	192 **

LEGEND: ★ HIGHLY RECOMMENDED ★ RECOMMENDED ★ APPLICABLE

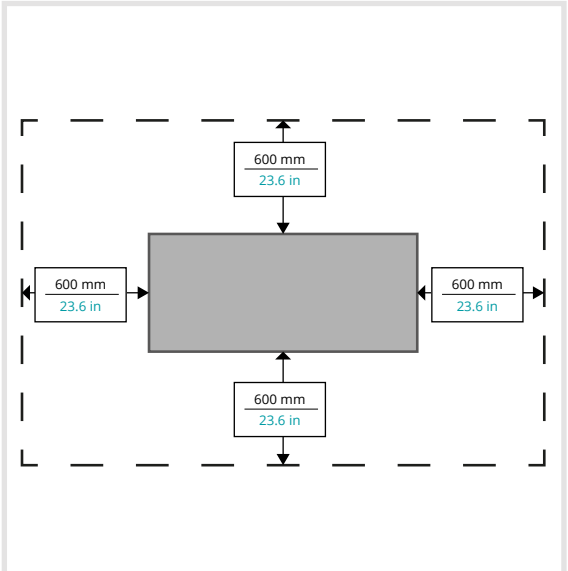
* PCBA eurocards / per 8 hours (calculated for dimension of 100 x 160 mm / 3.94 x 6.3 in)
* * Parts in soldering coating palette / per 8 hours (320 x 500 x 50 mm / 12,6 x 19,7 x 1,97 in)
* * * Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in

TECHNICAL PARAMETERS

	metric units	imperial units
Dimensions (w x l x h)	2536 x 1636 x 2463 mm	99.8 x 64.4 x 96.9 in
Weight	720 Kg	1587 lbs
Ø energy consumption per cycle	1,65 kWh	1.65 kWh
Cleaning and rinsing fluid consumption per cycle	0,05 – 0,3 l	0.01 – 0.08 gal
Compressed air consumption per cycle	83 l / 5 Bar	21.83 gal / 72.5 PSI
Max. dimensions of the cleaned parts	470 x 880 x 600 mm	18.5 x 34.65 x 23.62 in
Dimensions of the carrier basket	455 x 855 x 500 mm	17.91 x 33.66 x 19.69 in
Maximal load of the basket	50 Kg	110 lb
Dimensions of the handling trolley	570 x 1354 x 950 mm	22.44 x 53.30 x 37.40 in
Maximal load of the handling trolley	50 Kg	110 lb
Temperature range setting of the cleaning and rinsing fluid	From ambient temperature to 60°C	From ambient temperature to 140°F
Volume of the storage tanks (clean, rinse)	200 l	52.8 gal
Temperature range setting of the drying	From ambient temperature to 80°C	From ambient temperature to 176°F
Noise level	< 70 dB	< 70 dB
Device control	PLC + 5,7“ touchscreen	PLC + 5.7“ touchscreen

DIMENSIONS

MINIMUM SERVICE SPACE AROUND THE MACHINE

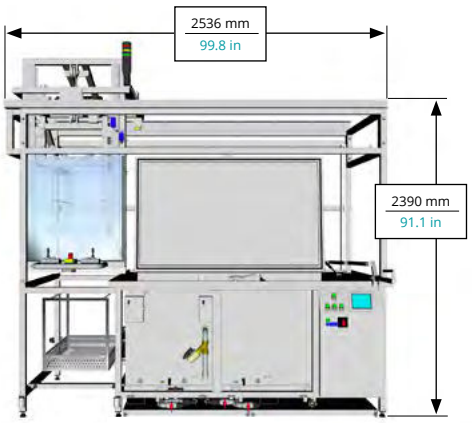


INSTALLATION REQUIREMENTS

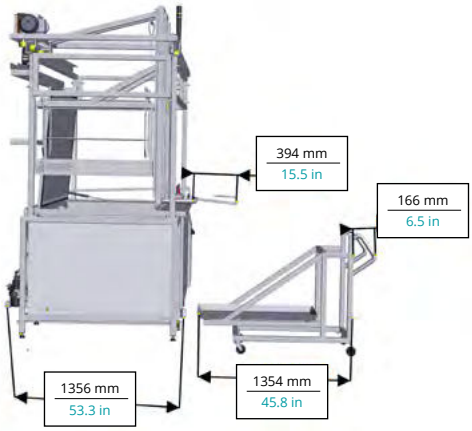
	metric units	imperial units
Power supply	400V, 32A, 50Hz (3+N+PE)	UL 400V, 32A, 60Hz* (3+N+PE)
Pmax	9,5 kW	9.5 kW
Compressed air connection	Pipe Ø 6 mm - 5 m	Pipe ID 0.24 in - 196,9 in
Recommended working pressure	4,5 – 6 Bar	65.25 – 87 PSI
Compressed air quality	3. Class **	3. Class **
Exhaust pipe diameter	Ø 100 mm	ID 3.94 in
Exhaust pipe capacity	380 m³/h	13 400 ft³/hod
Minimum liquid for first run	2 x 100 l	2 x 26.4 gal
Service space required around the device	600 mm	23.6 in

* When using frequency convertor
** According to the norm ISO 8573-1

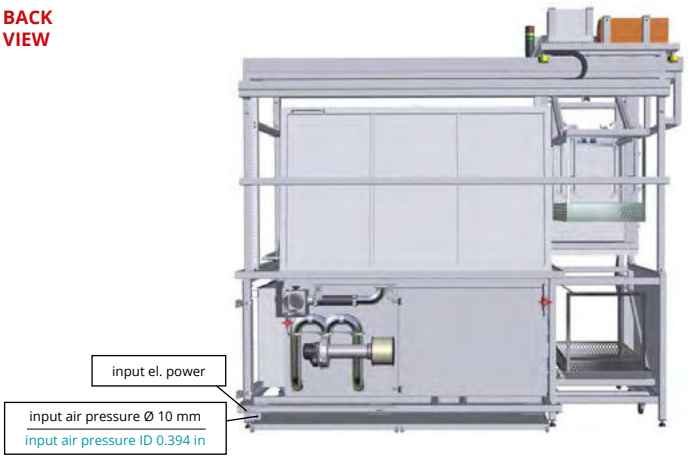
FRONT VIEW



RIGHT VIEW



BACK VIEW



LEFT VIEW

STANDARD EQUIPMENT

MECHANICAL EQUIPMENT

Pressurized air coupling for external pump connection
Spare parts (base kit)

ELECTRO EQUIPMENT

PLC controller + 5,7" touchsreen display - IDEC
Heating system - cleaning and rinsing fluid
Drying system - hot air
Emergency stop button
ESD earthing point - for operator

SOFTWARE EQUIPMENT

Language version - Czech + English
Three programs with individually settable parameter
Three-level logging rights - operator, maintenance, engineer
Minimum level warning - cleaning and rinsing fluid
Liquid and filter replacement notification – cycle counting

MANDATORY EQUIPMENT

Status light main + acoustic signalization - IDEC
Mechanical manipulation trolley

OPTIONAL EQUIPMENT

HARDWARE EQUIPMENT

Common fluids draining- manual control
Automatic cleaning agent refilling (without pump-ready mix)
Automatic cleaning agent discharging (without pump)
Automatic rinsing water refilling (without pump)
Automatic rinsing water discharging (without pump)
Stainless steel drip tray - ESD floor protection
External portable pump
Filtration sandwich - external
Drain valve with lock
Exhausting AirJet 594 CRD
Exhausting AirJet 594 CRD - ext. pump
Integrated pump for manual discharge
Integrated pump for automatic discharge

ELECTRO EQUIPMENT

Electronic control - drying spirals functionality
Control of external exhaust ventilator - instalation at customer
Transformer with/without UL

SOFTWARE EQUIPMENT

Language mutation (CZE, ENG, GER, POL, CHI, RUS, ITA, SPA, MAY, HUN)

TRACEABILITY

Traceability ON line
Traceability OFF line

BASKETS, HOLDERS AND STANDS EQUIPMENT

Mechanical basket

EXTERNAL TANKS AND ACCESSORIES

1000l IBC tank

For more information, a list of options and a selection of suitable equipment, please contact a DCT specialist in your country or the manufacturer directly.

DCT QUALITY

All of the InJet®, AirJet® and Sonix® cleaning systems developed by DCT are characterised by the highest quality on the market, high reliability, ease of use, simple maintenance, an extremely long lifespan, and the longest warranty on the cleaning system market.

These afore-mentioned benefits are achieved by the **precise manual production** of the cleaning systems in the Czech Republic, and thanks to the superior quality of the used materials and components.

Cleaning systems boast a **unique all-stainless-steel construction**, which is welded manually from AISI 304 and AISI 316 stainless steel and then chemically passivated.

The cleaning systems are designed and manufactured with a focus on **ease of use** by operators, **simple maintenance**, and **smart process parameter setting**. They are equipped with industrial PLC IDEC, a well arranged colour touch display with 3-level access (operator, maintenance, engineer), and with 3 or 5 adjustable cleaning programmes as standard.

The device **automatically and permanently checks** all **processes**, **operating fluid levels** and **process temperatures,** and also gives timely notification of the need to replace individual consumables or fluids.

Monitoring of the cleaning process history, whether offline or online, is ensured by an optional traceability function.

A wide range of **standard hardware** and **software equipment** is available for every cleaning system. However, DCT also excels by its **flexibility when resolving non-standard** cleaning systems and their accessories.

Our cleaning systems, together with our cleaning fluids and local application and technical support, bring you a long-term reliable, powerful and stable cleaning process, even under the most demanding continuous operation conditions.

With all its cleaning systems, DCT offers a **wide range of hardware and software equipment**, special frames with hitches for the parts you want to clean, and countless variants in addition to the basic process monitoring options which use traceability.

For more information, a list of options and a selection of suitable equipment, please contact a DCT specialist in your country or the manufacturer directly.

STAINLESS STEEL DESIGN AISI 304/316

STAINLESS STEEL DESIGN

- Main support frame
- Storage tanks
- Process chambers
- Fluid and air distribution systems
- Spray arms and nozzles
- Mechanical high-capacity filters
- Process chamber door frame and handle
- External shielding
- Active filters for rinsing DI water

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