



# BETTER SOLUTIONS

TECHNICAL DATA SHEET

# AirJet® 594 CRD-SAC CUSTOMLINE



**AirJet®**  
AIR-BUBBLE  
TECHNOLOGY



3  
CHAMBERS



INDIVIDUAL  
PROCESSES



APPLICATION

REFLOW and SOLDERING PARTS →

REMOVING

Maintenance  
cleaning



## GENERAL INFORMATION

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### 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.

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### DEVELOPED AND INTENDENT FOR RECOMMENDED

#### APPLICATION

REFLOW and SOLDERING PARTS →

#### REMOVING

Maintenance  
cleaning

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### CLEANING TECHNOLOGY

The AirJet® series cleaning systems represent unique **Air-bubbling 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.

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### CHAMBERS & PROCESSES

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

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### PROCESS CONTROL

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

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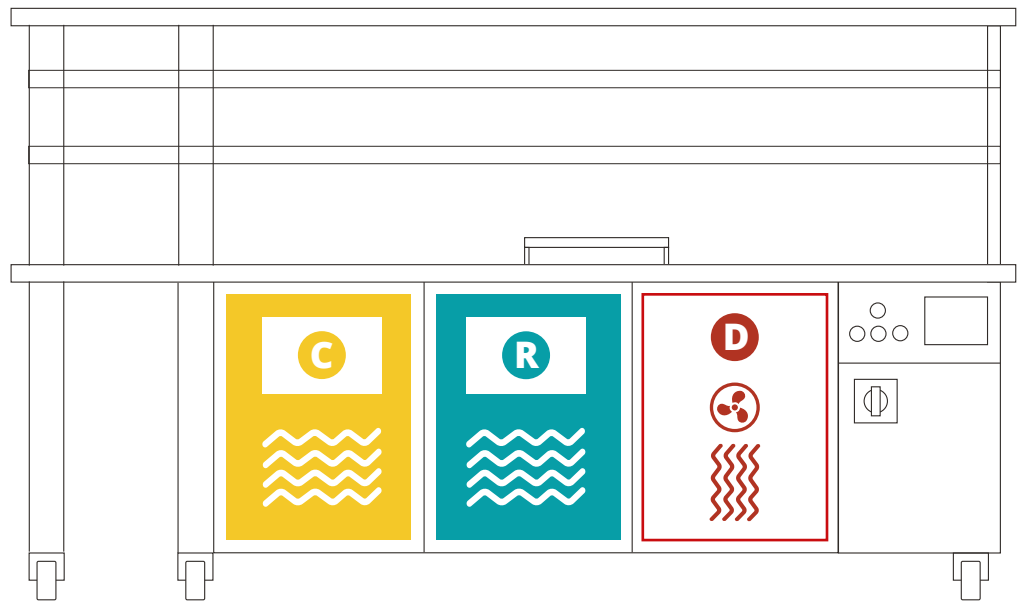


### 3 PROCESS CHAMBERS



### 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	★★★	30 – 50°C	86 – 122 °F	35 min.	192 **
Conformal coating removing		40 – 55°C	104 – 131°F	35 min.	192 **

LEGEND: ★★★ highly recommended   ★★ recommended   ★ applicable

\* PCB eurocards / per 8 hours (calculated for dimension of 100 x 160 mm / 3,94 x 6,3 in)

\*\* Parts in soldering 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



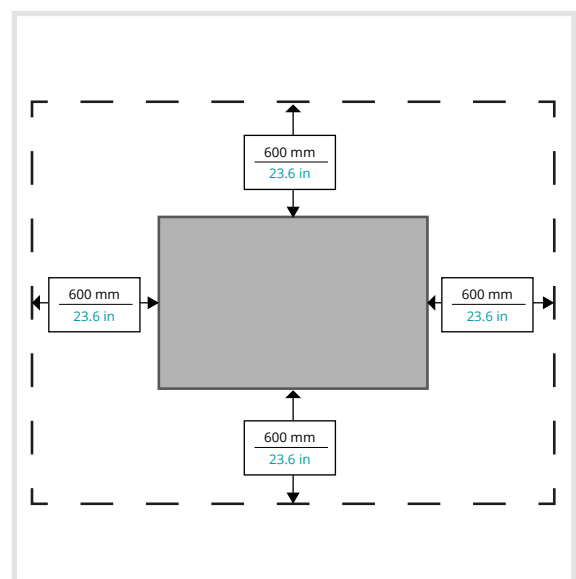
## TECHNICAL PARAMETERS

	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
Consumption of cleaning agent per cycle - empty cleaning chamber	0,1 – 0,3 l (15 min, 45°C)	0.02 – 0.08 gal (15 min, 113°F)
Consumption of rinsing fluid per cycle - empty rinsing chamber	0,1 – 0,3 l (15 min, 45°C)	0.02 – 0.08 gal (15 min, 113°F)
Compressed air consumption - air bubbling - one process chamber	33 l / min (4 Bar)	8,71 gal / min (58 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

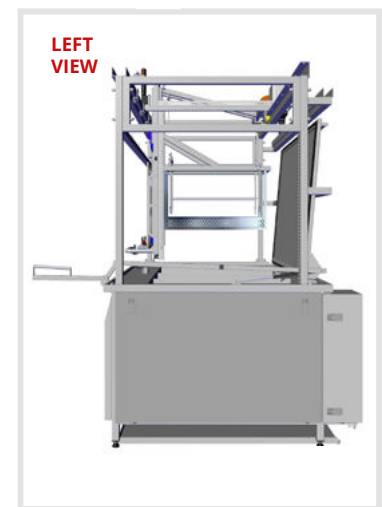
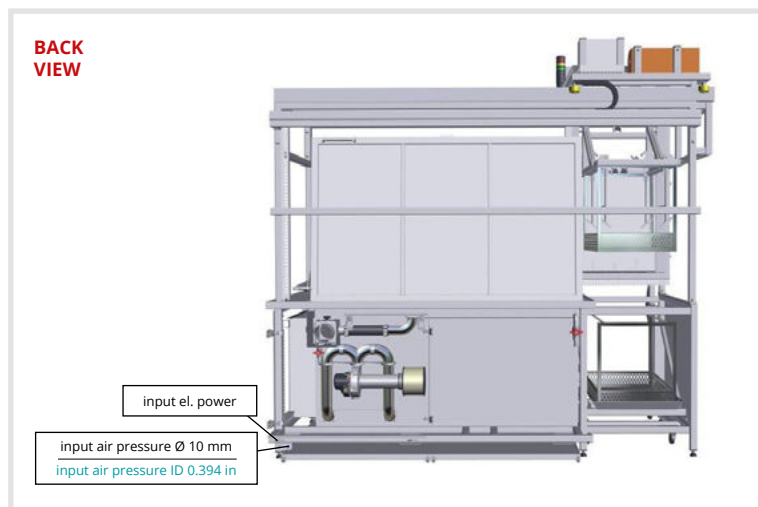
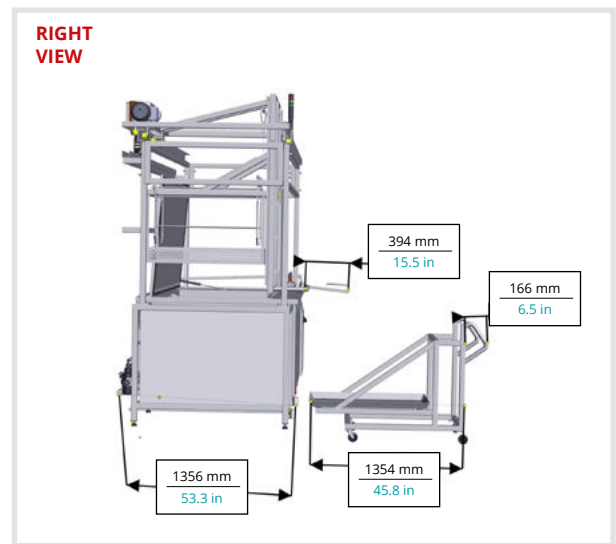
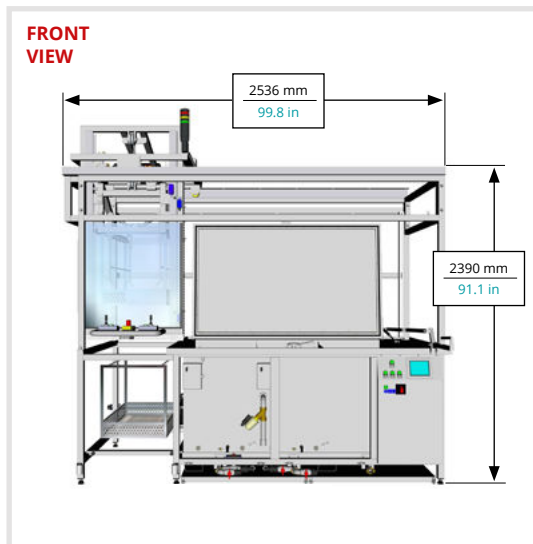




## INSTALLATION REQUIREMENTS

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

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



## STANDARD EQUIPMENT



### MECHANICAL EQUIPMENT

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Pressurized air coupling for external pump connection

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Spare parts (base kit)

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### ELECTRO EQUIPMENT

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PLC controller + 5,7" touchscreen display - IDEC

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Heating system - cleaning and rinsing fluid

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Drying system - hot air

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Emergency stop button

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ESD earthing point - for operator

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### SOFTWARE EQUIPMENT

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Language version - Czech + English

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Three programs with individually settable parameter

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Three-level logging rights - operator, maintenance, engineer

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Minimum level warning - cleaning and rinsing fluid

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Liquid and filter replacement notification - cycle counting

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## MANDATORY EQUIPMENT



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Status light main + acoustic signalization - IDEC

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Mechanical manipulation trolley

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## OPTIONAL EQUIPMENT



### HARDWARE EQUIPMENT

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Common fluids draining- manual control

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Automatic cleaning agent refilling (without pump-ready mix)

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Automatic cleaning agent discharging (without pump)

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Automatic rinsing water refilling (without pump)

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Automatic rinsing water discharging (without pump)

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Stainless steel drip tray - ESD floor protection

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External portable pump

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Filtration sandwich - external

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Drain valve with lock

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Exhausting AirJet 594 CRD

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Exhausting AirJet 594 CRD - ext. pump

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Integrated pump for manual discharge

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Integrated pump for automatic discharge

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### ELECTRO EQUIPMENT

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Electronic control - drying spirals functionality

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Control of external exhaust ventilator - instalation at customer

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Transformer with/without UL

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### SOFTWARE EQUIPMENT

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

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### TRACEABILITY

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Traceability ON line

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Traceability OFF line

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### BASKETS, HOLDERS AND STANDS EQUIPMENT

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Mechanical basket

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### EXTERNAL TANKS AND ACCESSORIES

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1000l IBC tank

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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

- 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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**AirJet®** is a registration trademark of DCT Czech s.r.o.

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