



BETTER SOLUTIONS



CHAMBERS



INDIVIDUAL
PROCESSES



TECHNICAL DATA SHEET

AirJet® 594 CRD-SAC CUSTOMLINE



APPLICATION

REFLOW and SOLDERING PARTS →

REMOVING

**Maintenance
cleaning**



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 → **REMOVING**
Maintenance cleaning

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



CLEANING SYSTEMS

AirJet® 594 CRD





Watch our video

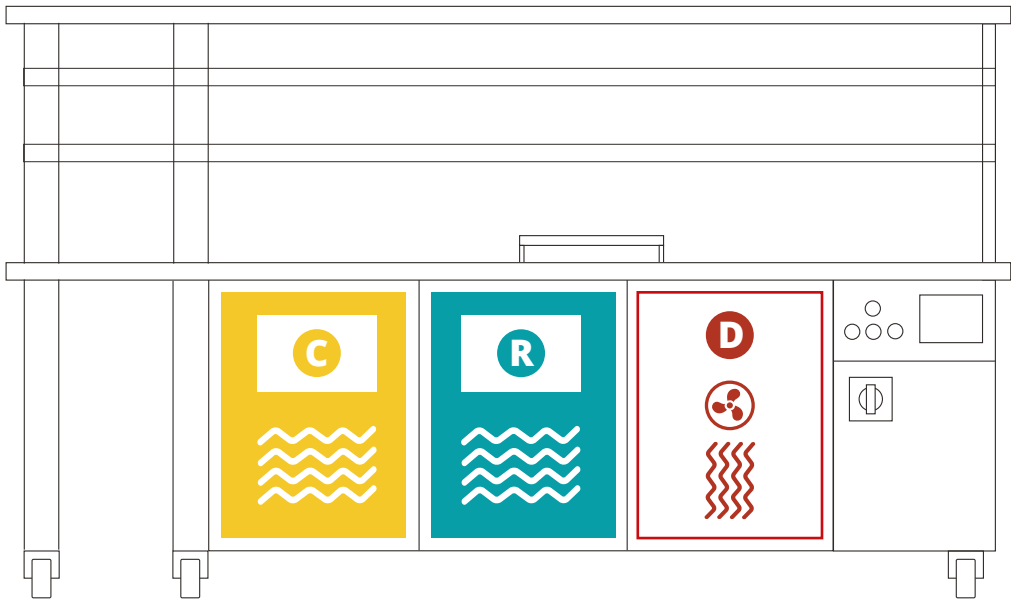


3 PROCESS CHAMBERS



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	★★★	30 – 50°C	86 – 122 °F	35 min.	192 **

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

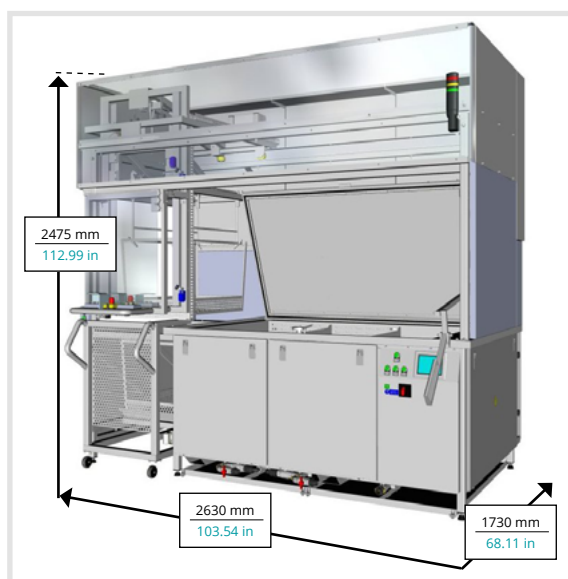
- * PCB eurocards / per 8 hours (calculated for dimension of 100 x 160 mm / 3,94 x 6,3 in)
- ** Parts in soldering palette / per 8 hours (320 x 500 x 50 mm / 12,6 x 19,7 x 1,97 in)
- *** Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in



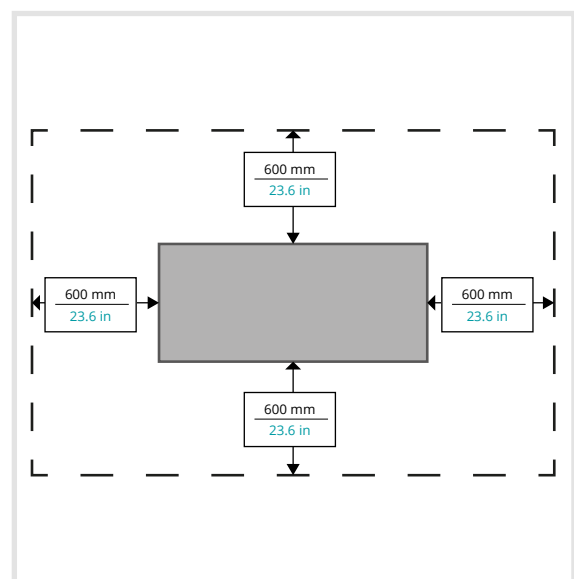
TECHNICAL PARAMETERS

	metric units	imperial units
Dimensions (w x l x h)	2630 x 1730 x 2475/2870 mm	103.54 x 68.11 x 97.44/ 112.99 in
Weight	870/900 Kg	1918/1984 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 + 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**



**CONTROL
PANEL**



**LEFT
VIEW**



**FRONT VIEW
WITH EXTRACTOR
HOOD**



STANDARD EQUIPMENT



MECHANICAL EQUIPMENT

Pressurized air coupling for external pump connection

Spare parts (base kit)



ELECTRO EQUIPMENT

PLC controller + 7" touchscreen 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

AirJet 594 SAC chamber covering

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
Extractor hood - AirJet 594 SAC



ELECTRO EQUIPMENT

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



SOFTWARE EQUIPMENT

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

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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