



# BETTER SOLUTIONS

TECHNICAL DATA SHEET

# AirJet® 4127 CRD CUSTOMLINE



**AirJet®**  
AIR-BUBBLE  
TECHNOLOGY



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 INTENDED 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 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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CLEANING SYSTEMS

AirJet® 4127 CRD

Watch our video

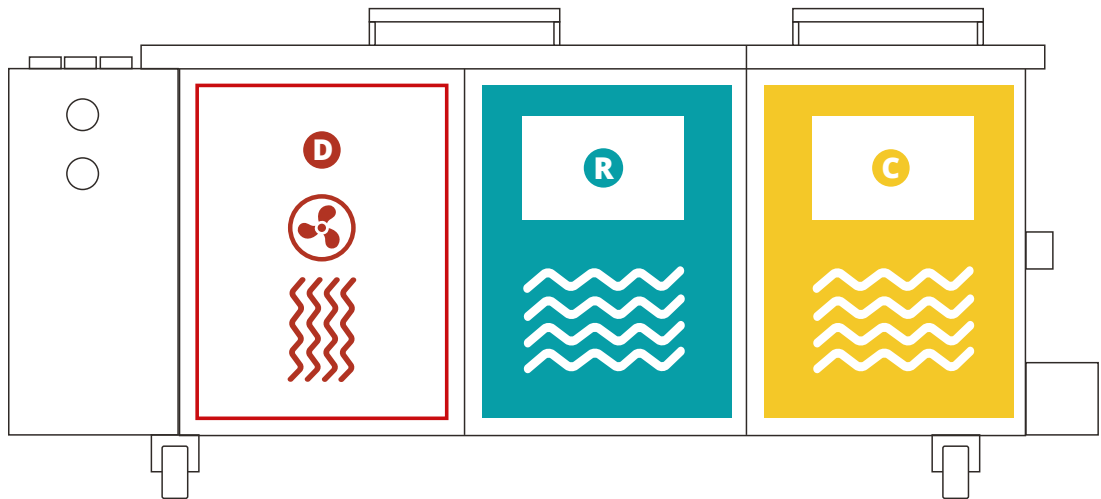


### 3 PROCESS CHAMBERS



### 3 PROCESSES

- C** CLEANING
- R** RINSING
- D** DRYING



### CLEANING PARAMETRES

Application name	Recommended application	Recommended temperature		Total cleaning process time	Capacity per 8 hours
Reflow and soldering parts	★★★	30 – 50°C	86 – 122 °F	35 min.	288 **

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



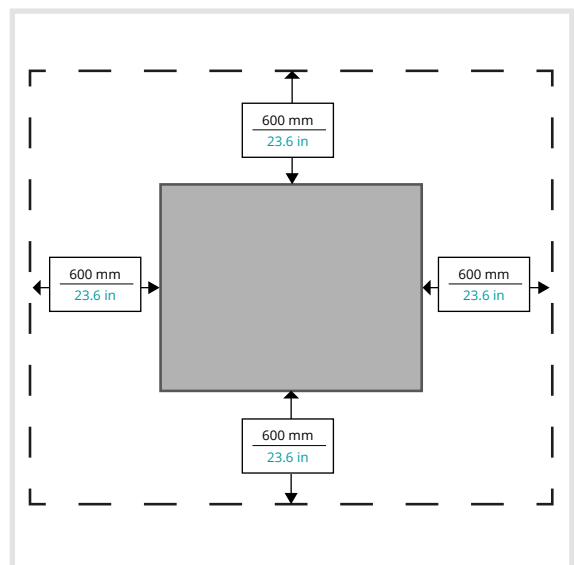
## TECHNICAL PARAMETERS

	metric units	imperial units
Dimensions (w x l x h)	1900 x 1550 x 1465 mm	74.8 x 61 x 57.7 in
Weight	480 kg	1058 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 water 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	50 l / min (4 Bar)	13,2 gal / min (58 PSI)
Max. dimensions of the cleaned parts	430 x 1280 x 700 mm	16,93 x 50,39 x 27,56 in
Dimensions of the carrier basket	410 x 1210 x 670 mm	16,14 x 47,64 x 26,38 in
Volume of the storage tanks (clean, rinse)	400 l	400 l
Temperature range setting of the cleaning and rinsing fluid	From ambient temperature to 60°C	From ambient temperature to 140°F
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

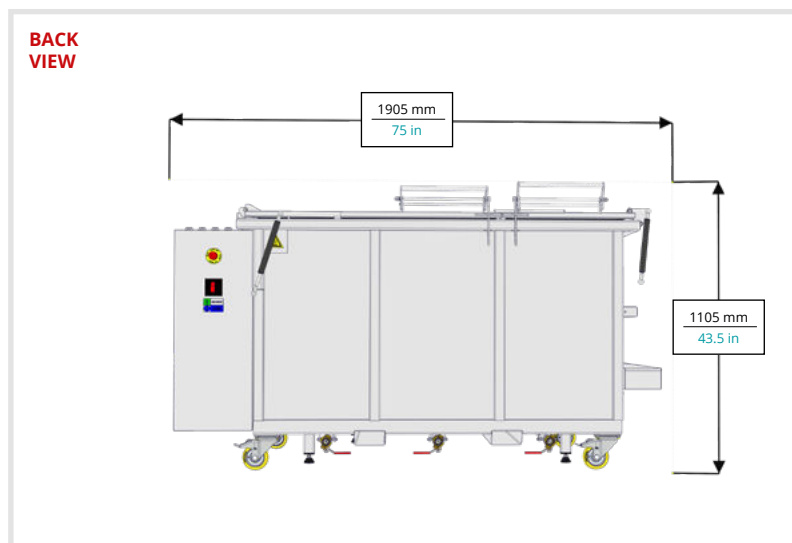
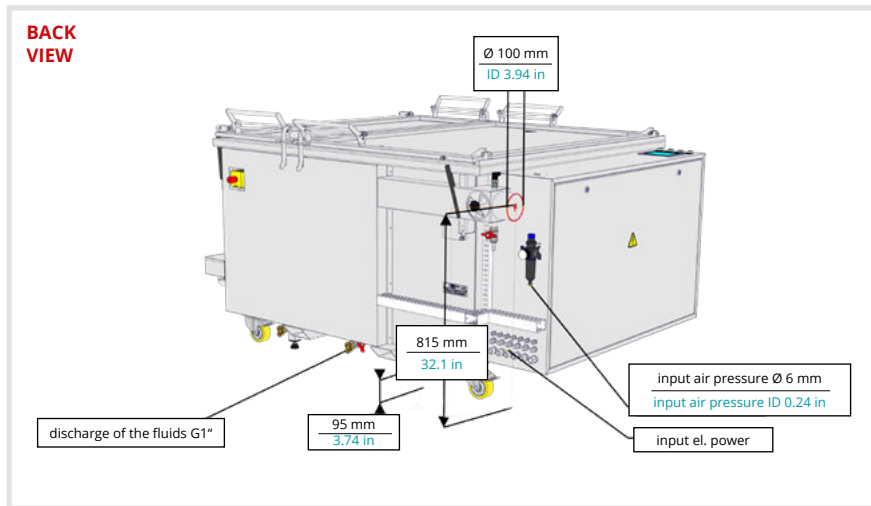




## INSTALLATION REQUIREMENTS

	metric units	imperial units
Power supply	400V, 32A, 50Hz (3+N+PE)	UL 400V, 32A, 60Hz* (3+N+PE)
Pmax	14 kW	14 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 capacity	380 m³/h	13 400 ft³/hod
Minimum liquid for first run	2 x 75 l	2 x 106 gal
Service space required around the device	600 mm	23.6 in

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



## STANDARD EQUIPMENT



### MECHANICAL EQUIPMENT

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Castor wheels with brakes - BLICKLE

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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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## OPTIONAL EQUIPMENT



### HARDWARE EQUIPMENT

- Automatic cleaning agent refilling (without pump-ready mix)
- Stainless steel drip tray - ESD floor protection
- External portable pump
- Drain valve with lock



### 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

- 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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