



BETTER SOLUTIONS

FOCUSED
DRYING



InJet®
SPRAY IN AIR
TECHNOLOGY



CHAMBER



INDIVIDUAL
PROCESSES



TECHNICAL DATA SHEET

InJet® 688 CRD TOASTER CUSTOMLINE



APPLICATION

STENCILS, MISPRINTS, SQUEEGEES
PCBAs

REMOVING

→ Solder pastes
→ Flux



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

**STENCILS, MISPRINTS, SQUEEGEES
PCBAs**

REMOVING

→ **Solder pastes**
→ **Flux**

CLEANING TECHNOLOGY

The InJet® 688 cleaning systems represent unique **vertical Spray-In-Air technology developed and manufactured by DCT.**

The vertically installed Spray-In-Air device minimizes the shadowing effect commonly seen in horizontal cleaners, and maximizes the efficiency of the cleaning process as the cleaning fluid is sprayed directly onto the cleaned component.

CHAMBERS & PROCESSES

1 PROCESS CHAMBER (2-LINES SOLUTION)
3 PROCESSES - CLEANING, RINSING, DRYING

PROCESS CONTROL

- Real-time cleaning fluid pressure monitoring
- Control system of fluids limit pressures
- Liquid and filter replacement notification - cycle counting
- Minimum level warning - cleaning and rinsing fluid
- Conductivity measurement - rinse

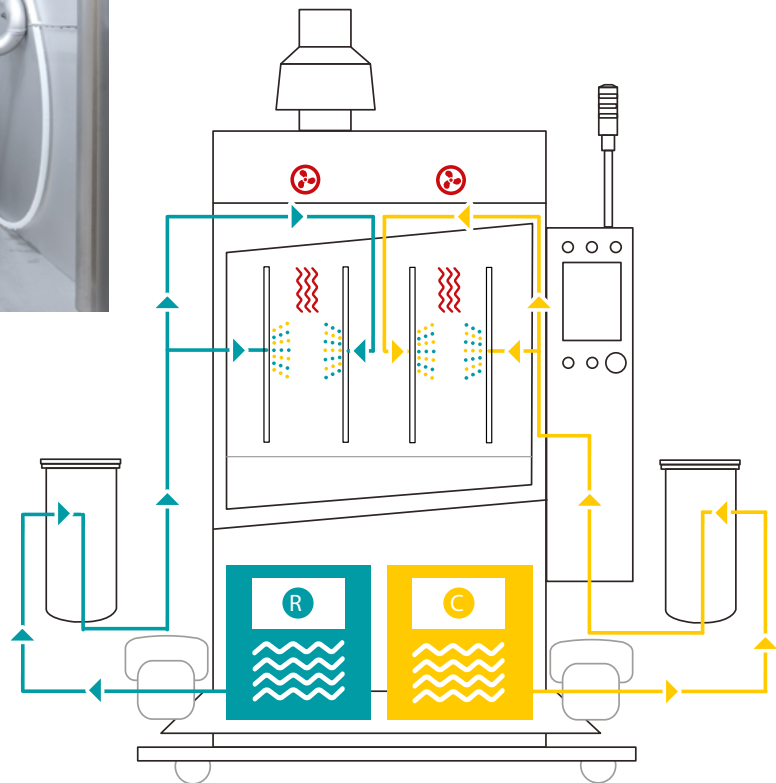


1 PROCESS CHAMBER



3 PROCESSES

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



CLEANING PARAMETRES

Cleaning Application	Suitability	Recommended processes temperature		Total usual process time	Capacity per 8 hours
Stencil, misprint, squeegee	★★★	20– 40 °C	68 – 104 °F	18 min.	54 ***
PCB	★★	35 – 55°C	95 – 131 °F	30 min.	786 *

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

* PCB eurocards / per 8 hours (calculated for dimension of 100 x 160 mm / 3.94 x 6.3 in)

*** Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in



TECHNICAL PARAMETERS

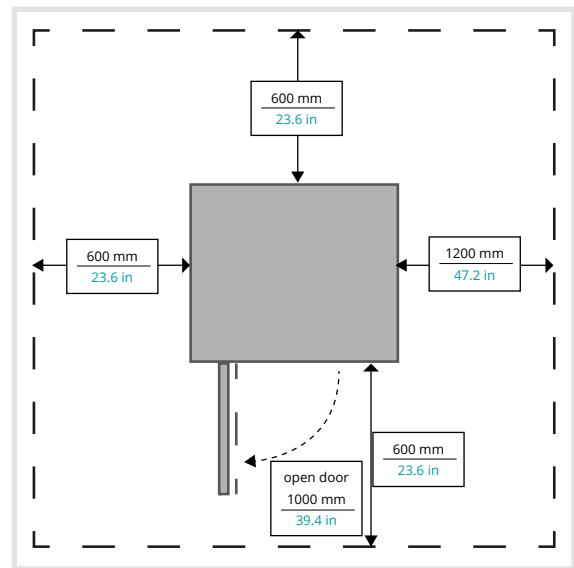
	metric units	imperial units
Dimensions (w x l x h) ZKOUSK	1620 x 1450 x 2450 mm	63.8 x 57.1 x 96,4 in
Weight	760 kg	1675 lbs
Ø energy consumption per cycle	3.3 kWh	3.3 kWh
Consumption of rinsing fluid per cycle – empty process chamber	0,2 – 0,5 l (15 min, 45°C)	0.05 – 0.13 gal (15min, 113°F)
Compressed air consumption per cycle	2 l / cycle	0.52 gal / cycle
Air consumption - chemical residue isolation in piping & spray - in - air nozzles	145 l / 25 sec	38,30 gal / 25 sec
Air consumption - chemical residue isolation in process chamber	260 l / 45 sec	68.68 gal / 45 sec
Air consumption -FOCUSED DRYING	664 l / min	176 gal / min
Max. dimensions of the cleaned parts	110 x 800 x 760 mm	3,94 x 31,5 x 29,92 in
Exchangeable mechanical filter of cleaning and rinsing fluid	5 – 200 µm	5 – 200 µm
Operating pressures cleaning *	1,5 – 2,3 Bar	21.75 – 29.00 PSI
Operating pressures rinsing *	0,5 – 1,5 Bar	7.25 – 21.75 PSI
Cleaning fluid flow rate	200 l / min	52.83 gal / min
Temperature range setting of the cleaning and rinsing fluid	From ambient temperature to 60°C	From ambient temperature to 140°F
Conductivity range settings of the rinsing fluid in the tanks.	0 – 2000 µS/cm	0 – 2000 µS/cm
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 + 7" touchscreen
Volume of the storage tanks	2 x 85 l	22,4 gal

* With FM

DIMENSIONS



MINIMUM SERVICE SPACE AROUND THE MACHINE





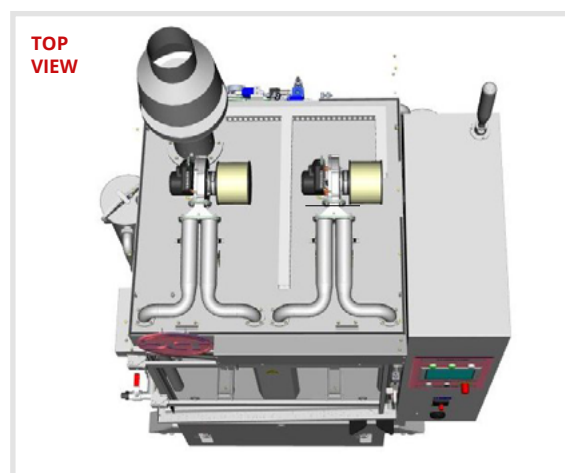
INSTALLATION REQUIREMENTS

	metric units	imperial units
Power supply	400V, 32A, 50Hz (3+N+PE)	UL 400V, 32A, 60Hz* (3+N+PE)
Pmax	13 kW	13 kW
Compressed air connection	Pipe Ø 19 mm - 5 m	Pipe ID 0,75 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 150 mm	ID 5.91 in
Exhaust pipe capacity	1 x 380 m ³ /h***	1x 10225 ft ³ /h***
Minimum liquid for first run	2 x 75 l	2 x 19,8 gal
Service space required around the device	600 mm	23.6 in

* When using frequency convertor

** According to the norm ISO 8573-1

*** Without Focused drying



STANDARD EQUIPMENT



MECHANICAL EQUIPMENT

Filtration of mechanical particles

Consumption savings - Residue air-isolation

Chimney flap - automatic

Draft diverter with drip plate - 150 mm

Pressurized air coupling for external pump connection

Castor wheels with brakes

Door lock - automatic

Manual air-bleeding for pumps

Mechanical filter lock

Glass level gauge in stainless steel housing

Spare parts (base kit)



ELECTRO EQUIPMENT

PLC controller+ 7" touchscreen display - IDEC

Rotation - 2 arms - electrically powered

Heating system - cleaning fluid + rinsing fluid

Drying system - hot air

Emergency stop button - EATON

ESD earthing point - for operator

STANDARD EQUIPMENT**SOFTWARE EQUIPMENT**

Language version - Czech + English

Five 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

Control system of fluids limit pressures

Real-time cleaning fluid pressure monitoring

MANDATORY EQUIPMENT

Status light main + acoustic signalization IDEC

Frequency convertor

FOCUSED DRYING

Conductivity measurement - rinse 0-2000 µS - blocking optional

OPTIONAL EQUIPMENT



MECHANICAL 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

Squeegee for reservoir tank maintenance



ELECTRO EQUIPMENT

Transformer with/without UL

Control of external exhaust ventilator - instalation at customer

Electronic control - drying spirals functionality



SOFTWARE EQUIPMENT

Fluid heating timer

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



TRACEABILITY

Traceability OFF line

Traceability ON line

OPTIONAL EQUIPMENT



FRAMES EQUIPMENT

Frames for frameless stencils

Frames for frame stencils

Frames for VectorGuard stencils

Frames - reduction for stencils

Frames for squeegees

Frames for PCBs



TROLLEYS, STANDS, HOLDERS EQUIPMENT

Mechanical table holder for a mechanical carrier frames

Mechanical manipulation trolley of PCB holders - 10 positions

Mechanical manipulation trolley of PCB holders - 8positions



EXTERNAL TANKS AND ACCESSORIES

Tank - 200l - rinse fluid

Conductivity measurement

Tank - 200l - cleaning fluid (readymix)

Tank - 200l - cleaning fluid (concentrate)

Air-based fluid mixing

Heating the fluids in the tanker (200 L)

Tank - 200l - cleaning fluid (concentrate) + dosing pump

1000l IBC tank

Monitoring the level in discharge external tank - IBC 1000 l

Monitoring the level in external tank for DI water - IBC 1000 l

Water pump with pressure 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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InJet® is a registration trademark of DCT Czech s.r.o.

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