TECHNICAL DATA SHEET

# InJet<sup>®</sup> 888 CRD-2F CUSTOMLINE



### APPLICATION

- REFLOW AND SOLDERING PARTS SMELTING RESIDUES
- CONFORMAL COATING

REMOVING

- COATING











www.dct.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

- REFLOW and SOLDERING PARTS
- CONFORMAL COATING

APPLICATION

#### REMOVING

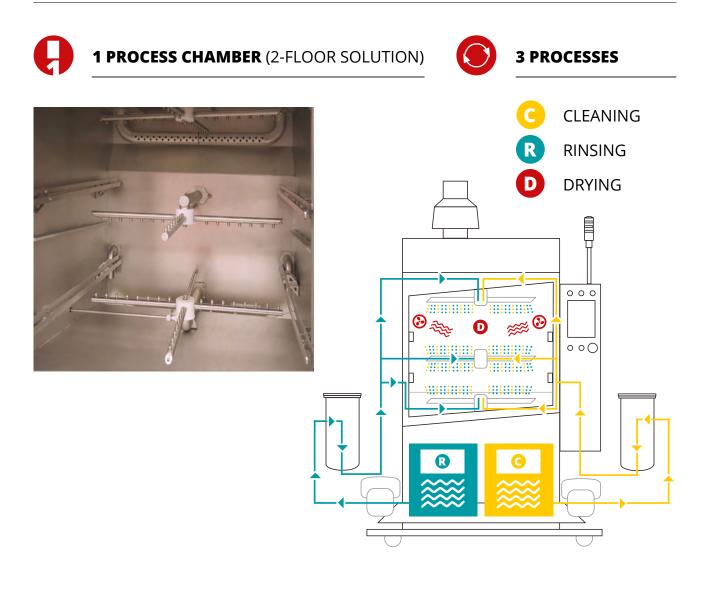
- SMELTING RESIDUES - COATING

CLEANING TECHNOLOGY	The InJet <sup>®</sup> 888 series cleaning systems represent unique <b>horizontal</b> <b>Spray-In-Air technology</b> developed and manufactured by DCT. Horizontal Spray- In-Air technology excel in high pressure and high liquid/fluid flow.		
CHAMBERS & PROCCESSES	1 PROCESS CHAMBER (2-FLOOR SOLUTION) 3 PROCESSES - CLEANING, RINSING, DRYING		
PROCESS	<ul> <li>Real-time cleaning fluid pressure monitoring</li> <li>Control system of fluids limit pressures</li> </ul>		

- Liquid and filter replacement notification cycle counting
  - Minimum level warning cleaning and rinsing fluid
  - Conductivity measurement rinse



**CONTROL** 





### 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	40 min.	240 **
Conformal coating	*	35 – 55°C	95 – 131 °F	55 min.	2200 *

#### LEGEND: THIGHLY RECOMMENDED TRECOMMENDED

- \* 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 ( $320 \times 500 \times 50$  mm /  $12,6 \times 19,7 \times 1,97$  in)
- \* \* \* Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in



#### **TECHNICAL PARAMETERS**

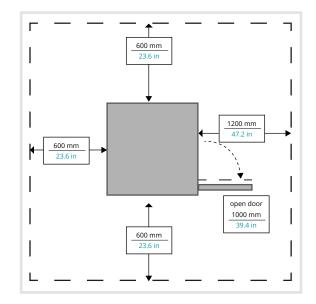
	metric units	imperial units
Dimensions (w x l x h)	1620 X 1350 X 2350 mm	63.8 x 53.1 x 92,5 in
Weight	680 kg	1500 lbs
Ø energy consumption per cycle	3,3 kWh	3.3 kWh
Cleaning and rinsing fluid consumption per cycle	0,2 - 0,5	0.05 – 0.13 gal
Compressed air consumption per cycle	1200 l / cycle / 4,5 bar	317 gal / cycle / 65,2 PSI
Max. dimensions of the cleaned parts **	850 x 800 x 600 mm	33.46 x 31 x 22.7 in
Exchangeable mechanical filter of cleaning and rinsing fluid	5 – 200 µm	5 – 200 µm
Operating pressures frequency converter	1,8 Bar	26.1 PSI
Cleaning fluid flow rate	210 l / min	55.5 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 + 8,4" touchscreen	PLC + 8.4" touchscreen
Volume of the storage tanks	85	22,4 gal

\*\* The maximum height of the board, if the basket has 2 floors, is 210 mm at a loading angle of 10°.

#### DIMENSIONS



#### MINIMUM SERVICE SPACE AROUND THE MACHINE

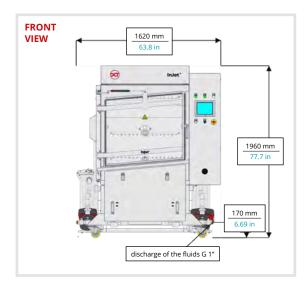


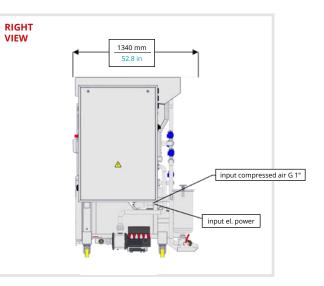


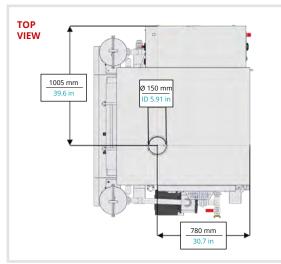
### **INSTALLATION REQUIREMENTS**

metric units	imperial units	
400V, 32A, 50Hz (3+N+PE)	UL 400V, 32A, 60Hz* (3+N+PE)	
12 kW	12 kW	
Pipe Ø 6 mm, Ø 10 mm - 5 m	Pipe ID 0.24 in, ID 0.39 in - 196,9 in	
4,5 – 6 Bar	65.25 – 87 PSI	
3. Class **	3. Class **	
Ø 150 mm	ID 5.91 in	
380 m³/h	13400 ft³/h	
2 x 75 l	2 x 19.8 gal	
600 mm	23.6 in	
	400V, 32A, 50Hz (3+N+PE) 12 kW Pipe Ø 6 mm, Ø 10 mm - 5 m 4,5 - 6 Bar 3. Class ** Ø 150 mm 380 m <sup>3</sup> /h 2 x 75 l	

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







#### **STANDARD EQUIPMENT**



#### **MECHANICAL EQUIPMENT**

Filtration of mechanical particles	
Chimney flap - automatic	
Draft diverter with drip plate - 150 mm	
Pressurized air coupling for external pump connect	tion
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+ 8,4" touchscreen display

 Rotation - 4 arms - electrically powered

 Heating system - cleaning fluid + (pre-)rinsing fluid

 Drying system - hot air

 Emergency stop button

 ESD earthing point - for operator

### 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

Conductivity measurement - rinse  $\,$  0-2000  $\mu S$  - blocking optional

Frequency convertor

#### **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)
Integrated pump for automatic discharge
Integrated pump for manual discharge
Consumption savings - Residue air-isolation
Stainless steel drip tray - ESD floor protection
External portable pump
Filtration sandwich - external
Drain valve with lock
Squeegee for reservoir tank maintenance
Heating coil cover 888
Retractable clamp - 88,9 mm



### **ELECTRO EQUIPMENT**

Transformer with/without UL

Control of external exhaust ventilator - instalation at customer

Electronic control - drying spirals functionality



#### SOFTWARE EQUIPMENT

Fluid heating timer

Modification of cleaning system for 3rd class flammable liquid

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

## **OPTIONAL EQUIPMENT**



#### TRACEABILITY

Traceability OFF line

Traceability ON line



### **BASKETS, HOLDERS AND STANDS EQUIPMENT**

Mechanical raster- trolley solution - solde	ering frame (8slots)
Mechanical raster - drawer solution - sol	dering frames (8 slots)
Mechanical carrier holder - trolley solution	ח - PCB (18 slots)
Mechanical basket - trolley solution - PCE	3
Side guidance of PCB - trolley solution	
Mechanical stand - trolley solution - sold	er. f.(8 slots) adjus.
Mechanical stand - drawer solution - solo	Jering frames (8 slots)
Mechanical reduction - trolley+drawer sc	Jstencil, squeeg, PCB
Mechanical comb holder - trolley solution	n - PCB (10 slots)
Mechanical mobile chassis - trolley soluti	ion - soldering frames
Mechanical carrier - trolley solution - solo	dering frame (5 slo.)



### **TROLLEYS EQUIPMENT**

Mechanical manipulation trolley - two floor with lock



#### **EXTERNAL TANKS AND ACCESSORIES**

Tank - 200I - rinse fluid	
Conductivity measurement	
Tank - 200I - cleaning fluid (readymix)	
Tank - 200I - cleaning fluid (concentrate)	
Air-based fluid mixing	
Heating the fluids in the tanker (200 L)	
Tank - 200I - cleaning fluid (concentrate) + dosing pump	
1000I IBC tank	
Monitoring the level in discharge external tank - IBC 1000 l	
Monitoring the level in external tank for DI water - IBC 1000 I	
Water pump with pressure tank	

Eor 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<sup>®</sup>, AirJet<sup>®</sup> and Sonix<sup>®</sup> 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

Date of issue: **10/2023** InJet<sup>®</sup> is a registration trademark of DCT Czech s.r.o.

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