

FX JET

Model 8



FONDAREX®

GENERATION	2025.04
Main circuits / cooling channels / DCABs	1 to 8
Monitored jet nozzles / Micro channels	1 to 64 (8 per channel (DCAB))
Number of nozzles per micro channel	1 to 3
System pressure (from - to)	10 - 24 bar
Heat transfer medium	Demineralised water
Cooling capacity	30 kW (Nominal)
Max. volume flow	2 x 50 l/min
Tank capacity	250 l
Noise level at full load	< 70 dB(A)
HMI	Integrated HMI (Standard)
Fan for main cabinet (MCAB)	Max. 42 °C

MONITORING (HMI-DISPLAY)

Language (Standard)	EN (US) / EN (UK) / DE / FR / IT / SP / PT / SE / CZ / SK / PL / RO / HU / SL / HR / GR / TR / CN / KR / JP
Process overview display	Yes
Water (tank) temperature	Yes
Return flow temperature	Per micro channel
Flow rate	Per micro channel
Pump pressure	Yes
In-flow water pressure	Per DCAB
Compressed air pressure	Yes
Water conductivity	Yes
Tank fill level	Max. 42 °C

MONITORING (CURVE OVER TIME)

Return flow temperature	Per micro channel
Flow rate	Per micro channel

RECORDED VALUES

Storage medium	USB-Stick, OPC-UA
Production data	Yes
Water tank temperature	Yes
Mean water temperature per cycle	Per micro channel
Mean flow rate per cycle	Per micro channel
Extracted heat per cycle	Per micro channel
Cooling duration per cycle	Per DCAB
Temperatur / Flow rate - curves over time	Per micro channel

FEATURES

Water change	Automatic
Integrated demineralisation unit	Yes
Leak test	Per DCAB
Pin-break monitoring	Yes
Fault recording	Yes
Pulse operation mode	Optional
Frequency controlled pump	Yes
Stand-by mode for energy saving	Yes
Recipe management	Yes
Automatic / Manual mode switch	Yes
Heat exchanger can be switched on and off	Yes
Pressure drop monitored filter	Yes
Tolerance setting (Per micro channel)	Flow, return temperature, extracted heat

KEY COMPONENTS

CPU	Siemens
HMI	Siemens 10"
Main pump type	2 x Centrifugal pump, stainless steel, (50 l/min at 24 bar)
By-pass-pump	Immersion pump, stainless steel, (10 l/min at 4 bar)
Flow meters	Vortex (0.5 - 10 l/min)
Heat-exchanger	Stainless steel
Water tank	Stainless steel
Water conductivity sensor	0.05 - 1000 µS
Internal field bus technology	I/O-Link
Protection class (MCAB)	IP54
Protection class (DCAB)	IP65

ENVIRONMENTAL CONDITIONS

Temperature	5 - 42 °C
Relative air humidity	0 - 90 % (Not condensing)
Pressurized air	5 - 6 bar at 3500 l/min

DIMENSIONS [WIDTH X HIGHT X DEPTH] / WEIGHT

Dimension FX JET MODEL 8	800 x 1780 x 1300 mm
Weight FX JET MODEL 8	570 kg
Dimension DCAB	600 x 260 x 250 mm
Weight DCAB	20 kg

VOLTAGE / CERTIFICATION

Voltage, max. power consumption (Standard)	3x 400V ± 10 % / 50hz ± 1 %, 8 kW
Voltage, max. power consumption (Optional)	3x 480V ± 10 % / 60hz ± 0.5 %, 10 kW
Max. current	32 A
Certification	CE (Standard) / UL (Optional)

CONNECTORS / FITTINGS

Compressed air	1/2"
Cooling water	3/4"
DCAB - MCAB (Water)	1/2"
DCAB - MCAB (Pressurized air)	1/2"
Tank - Water drain	1/2"
Tank - Water supply	1/2"

OPTIONS

DCAB with 8 monitored micro channels	Optional
DCAB without micro channel monitoring	Optional
DCAB MANIDRIVE with flow rate and pressure monitoring	Optional
DCAB MANIDRIVE without monitoring	Optional
Profinet interface to DCM	Optional
Profibus interface to DCM	Optional
Anybus	Optional
Advanced communication	Optional
HMI remote panel	Optional
Type of HMI Wein View	10" (Optional) 20" (Optional)
Indicator light tower deported	Optional
Remote assistance EWON	Optional
Compressed air regulator	Optional
Air conditioner	Optional
Conformal cooling	Optional
Maintenance set	Optional