FAST MOVING TECHNOLOGY

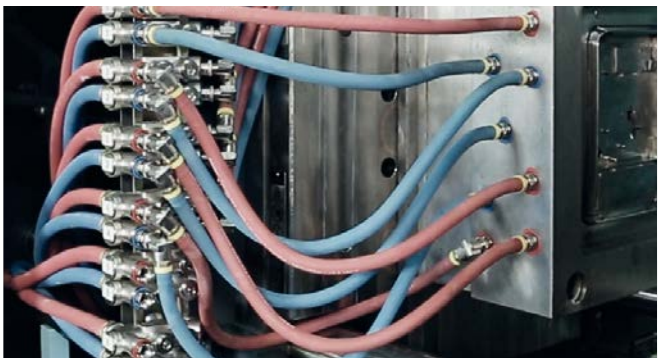
STÄUBLI

EMI modules

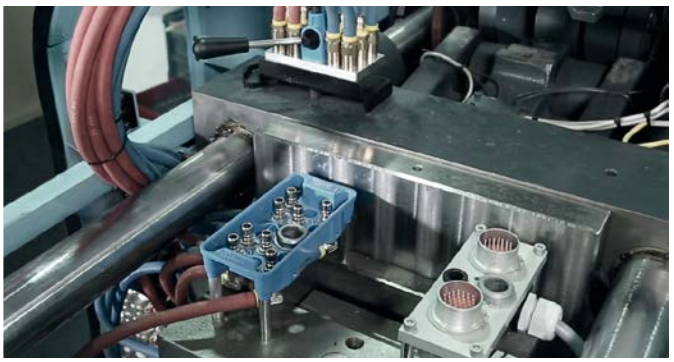
Mold temperature control

EMI MODULES

The solution for more versatile injection molding machines



Mold equipped with quick release couplings



Mold equipped with a multi-connection plate

Connection of temperature-control circuits on injection molding machines

In a sector in which the versatility of equipment is both a driver of productivity and a financial imperative, EMI modules stand out as a particularly flexible solution. Companies will be in a position to replace their molds with centralised connection solutions without having to retrofit all their molds: a gradual investment with a very rapid ROI.

Installing EMI modules means that molds equipped with mono-couplings and molds equipped with centralised connections can be used on the same IMM.

The solution's modular design enables it to be adapted with great precision to the molds used on the IMM as well as to the characteristics of each application.

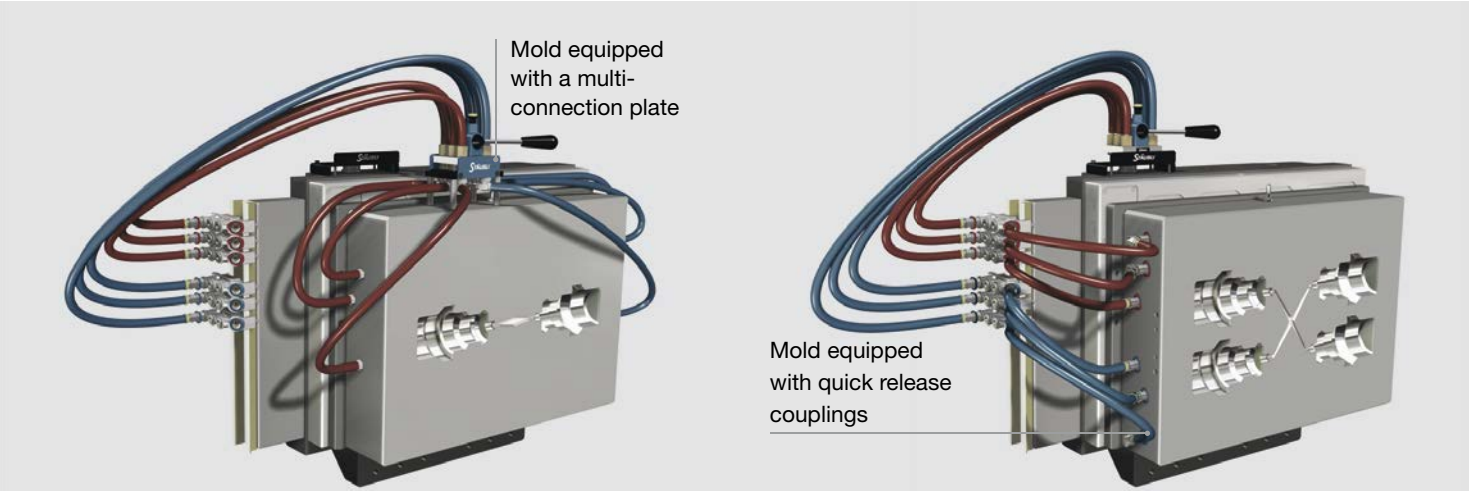
Mode of operation

By distributing various circuits through the same module, EMI solutions can supply any type of mold, whether equipped with a multi-connection plate or mono-couplings. Each EMI module is equipped with a hose plug (A), which is connected to the flow meter, an RPL shutoff socket (B) and three inlets/outlets (C), to be equipped in accordance with the various molds used on the IMM and the application's characteristics.

The number of circuits to be supplied determines the number of modules to be assembled on the rail mounted on the injection molding machines.

Example:
A: Inlet/outlet for main supply
B: Shutoff inlet/outlet to supply the mold equipped with mono-couplings
C: Shutoff inlet/outlet to supply the multi-connection plate on the press

ON THE SAME INJECTION MOLDING MACHINE EQUIPPED WITH A RAIL AND EMI MODULES



CASE 1

The mold is equipped with a multi-connection plate

As the plate's circuits were previously connected to the EMI modules, all the mold's circuits are connected in a single movement.

CASE 2

The mold is equipped with mono-couplings

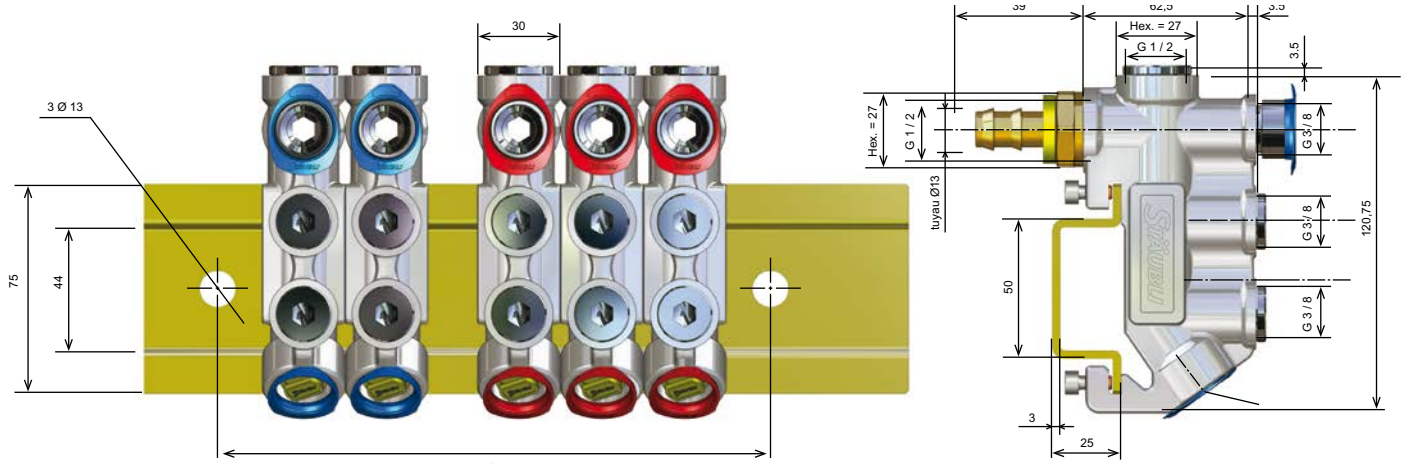
Each circuit is connected on the mold and on the EMI.

Technical characteristics and dimensions

Maximum allowable pressure PS: 10 bar

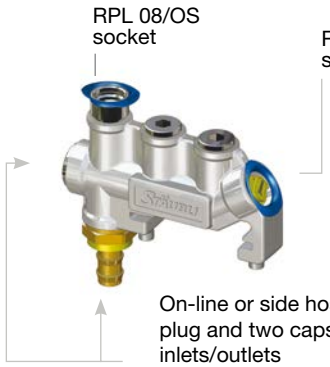
Min and max normal operating temperature:
The EMI modules' operating temperatures depend on all the module's equipment.

- RPL shutoff socket: -10°C and +150°C (to be used with an RPL plug with a fluorocarbon seal)
- RPL full flow socket: -10°C and +90°C
- CBI plug: -10°C and +150°C
- RMI 09 plug: +15°C and +150°C



PART NUMBERS

Part numbers	
EMI modules with 3 free inlets/outlets	
Blue	**Red**
EMI 15.8001/KB	EMI 15.8001/KR



Part numbers	
EMI modules with 2 free inlets/outlets	
Blue	**Red**
EMI 15.8021/KB	EMI 15.8021/KR

Coupling plug			
	Nominal diameter (mm)	**Part numbers**	
RMI auto-shutoff plug	09	RMI 09.7152/JV	
CBI non-spill plug	06	CBI 06.7152/IA/JV	
	09	CBI 09.7152/IA/JV	
RPL socket	08	**Blue**	**Red**
- shutoff		RPL 08.1152/ON/JV/KB	RPL 08.1152/ON/JV/KR
- full flow		RPL 08.1152/KB	RPL 08.1152/KR
Hose stems	10 mm	AF 152.10/LN	
	12 mm	AF 152.12/LN	
Hose stems for self-locking hose	1/2"	AF 152.10/CN	
	5/8"	AF 152.13/CN	

RMI, CBI and RPL plugs have to be used with the corresponding Stäubli sockets. Consult dedicated documents on our website, www.quick-mold-change.com, or reach out to your Stäubli contact.

NBR-PVC self-locking hoses for temperature-control circuits			
	Internal diameter of hose	**Part numbers**	
Supplied in 20-m rolls.		**Blue**	**Red**
For a 50-m roll, add / 50 to the end of the part number.	10,2 mm	CALORLOCK 10/KB	CALORLOCK 10/KR
	12,7 mm	CALORLOCK 13/KB	CALORLOCK 13/KR

All the characteristics of the Calorlock hoses are available in Stäubli RN210 documents.

	Part numbers	
Rail		
Length of 500 mm	R 158 270 10	
Identification labels (numbered from 1 to 12)		
25 x 15 mm	**Blue**	**Red**
	R 158 290 50	R 158 290 30
Cap G 3/8		
	BOU152/HC/LN/JV	
Identification rings for Calorlock hoses		
	See the part-number creation method below	

How to create your part numbers

R 213 8	Ø Ring	Ring colour	Ring number
Common section	13 Hose outside Ø from 13 to 17 mm	Blue ring 7	From 0 to 9
R 213 8	17 Ø ext. tuyau 17 à 24 mm	Red ring 3	

Examples: R 213 8 13 7 0 -> **R 213 813 70 (Blue ring Ø13 engraved 0)**

Packaging: in a bag containing 25 red or blue rings bearing the same number

RD5000601A

■ Stäubli Units ○ Agents

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