COOL ONE

Ň





ORDER ONLINE: estore.milacron.com

Or call our Customer Support Agents for easy processing.





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THE POWER OF POSSIBILITIES.

At **DME** - a Milacron company - we see ourselves as problem solvers. A global integrated team that is driven by the desire to help each customer's "what ifs" come to life.





"We want customers calling us with their toughest problems and wildest ideas. We are in the business of creating solutions and realizing aspirations – of building what used to be impossible."

Tom Goeke

A GLOBAL TEAM, Working as one.

Milacron has a global perspective on what matters in manufacturing. With over 15 manufacturing facilities in six countries, we sell our plastics processing solutions in over 100 countries across six continents. We have an installed base of 40,000 machines, 153,000 hot runners and over 3.5 million square feet of manufacturing space. We put this know-how to work every day to improve productivity, cut costs, increase energy efficiency, eliminate scrap, and reduce cycle times across a diverse range of industries. Behind it all is our people caring, committed and creative who build long-term relationships with our customers.

From automobiles and appliances to milk jugs and toothbrushes, **DME** technologies and services help the world's leading companies make your favorite products.

Success in today's global market starts with the best product, at the best price, in the required time frame. To achieve this, **DME** provides customers with the best blend of manufacturing, outsourcing and strategic partners, managed to be delivered right on time anywhere in the world using contemporary, sophisticated techniques.

DME delivers a variety of mold components available in all regional standards. Thousands of high performance, off-the-shelf and engineered solutions let our customers spend more time on valuable cavity work. Along with a comprehensive line of equipment and supplies, we provide the high quality products you need to speed up assembly and simplify operations.

Only **DME** can provide customers with the worldwide resources required to compete in the market of Injection Molds & Components, Hot and Cold Runner spare parts as well as in Die Set Molds & Components or Surface Finishing Technologies.

Today, **DME** is proud to be able to provide complete turnkey solutions, partnering with fellow **Milacron** companies such as **Mold-Masters** runnerless systems, **Tirad** high precission custom plates (including **DME** Standard components) and **Ferromatik** machines.





Cool-One







WHAT IS A DME COOL-ONE SYSTEM?

The Cool-One is a standardized and pre-engineered system, which heats up the resin and brings it from the nozzle of the injection machine to the cavity. Its design places particular emphasis on temperature control along the melt delivery process.

This is possible thanks to a distribution structure that goes from the Heated Nozzle Locator, through the distribution channels up to the probes and to the injection point.

What makes the Cool One different from common hot runner systems is the location of the heaters, which are not around the plastic flow, but in the middle of it. This means that the distributor tubes, which contain the heaters are in the middle of the distribution channel, which are in fact simple holes machined in the plate. The centering rings keep the heater well located.

The the distribution structure has a single primary distributor tube, with intersecting probes to direct the flow of material to the gates. According to the complexity of the project it can be necessary to create more distributor channels to reach every cavity. A wide variety of intersecting layouts are possible to carry molten material to virtually any number or pattern of cavities. In any case the plastic flow is constantly heated.

During start up the first plastic flow entering the mold, gets in touch with the external wall of the distributor channel and solidifies on it, creating a natural INSULATING BARRIER. This is an important feature of the Cool One, because that insulation separates the plastic flow from the mold reducing the need of cooling and generating a very high energy saving. DME delivers the complete system, consisting of nozzle, distribution system, probes and machined plates.

As the heaters are in the middle of the flow, the heat they generate remains within the tube and is transferred to the plate in a very little quantity. The heat is generated only where is needed and all along the pattern of the plastic. That means that the system needs less energy. This makes the Cool One a very efficient system.

The way the insulating barrier is created, makes the Cool One a system that requires no seal rings; in fact it can be defined as self-sealing and for the way it is generated it makes leakage impossible.

The insulation also means that the plates will suffer much less thermal expansion / distortion. ONE OR

MULTI-CAVITY

INSULATING

BARRIER

HIGHER EFFICIENCY

INTERNALLY

HEATED





DME









Regular AFP probe is suited for unfilled material.

In case you work with filled material, ask for a TiN coated probe.

The AFP probe is a kit consisting of P, ASF, BAF and HM; see below for more information.









REF	d	L	Watt 230V	Amp.
AFTC 0825 E	8	50	140	0,6
AFTC 0826 E	8	65	185	0,8
AFTC 0827 E	8	85	215	0,9
AFTC 0828 E	8	110	300	1,3









PROBES

MILACRON°



Regular AFP probe is suited for unfilled material.

In case you work with filled material, ask for a TiN coated probe.

The AFP probe is a kit consisting of P, ASF, BAF and HM; see below for more information.



REF	A
AFP 301 N	74
AFP 401 N	91
AFP 501 N	118
AFP 601 N	143

	AFP is built up by following items						
	Р	ASF**	BAF	НМ			
		0					
REF	REF	REF	REF	REF			
AFP 301 N	P 301 N						
AFP 401 N	P 401 N	A SE A N	BAE 12 N	EHM 2730			
AFP 501 N	P 501 N	7.01 4 N					
AFP 601 N	P 601 N						



REF	d	L	Watt 230V	Amp.
AFTC3022E	9,52	66	190	0,8
AFTC3032E	9,52	83	240	1,0
AFTC3042E	9,52	110	310	1,4
AFTC3052E	9,52	136	390	1,7







PROBES

Technical information



Regular AFP probe is suited for unfilled material.

In case you work with filled material, ask for a TiN coated probe.

The AFP probe is a kit consisting of P, ASF, BAF and HM; see below for more information.





AFP MAXI PROBE -----

REF	A
AFP 502 N	115
AFP 602 N	140
AFP 702 N	168
AFP 802 N	198
AFP 902 N	248
AFP 1002 N	320
AFP 1102 N	370

















PROBES - ACCESSORIES







**grind this face to suit



DISTRIBUTOR SYSTEM



DISTRIBUTOR SYSTEM





02/02/2017 \bigcirc CAD reference point



HEATED NOZZLE ADAPTERS



HEATED NOZZLE ADAPTERS







Construction





CONSTRUCTION INSTRUCTIONS



Info











AFIP 3-4-5 (TC) AFM (MPT + AFTC)





Min dimensions:

Min. 23 mm (Micro) Min. Min. 27 mm (Mini) Min. Min. 30 mm (Standard) Min. Min. 40 mm (Maxi) Min.	Nithout AFR	With
Min. 30 mm (Standard) Min. Min. 40 mm (Maxi) Min.	Vin. 23 mm (Micro) Vin. 27 mm (Mini)	Min. Min
Vin. 40 mm (Maxi) Min.	Vin. 30 mm (Standard)	Min.
	Vin. 40 mm (Maxi)	Min.

AFR 27,5 mm (Micro) 32 mm (Mini) 35 mm (Standard) 41 mm (Maxi)

В

45 mm (Micro) 45 mm (Mini) 55 mm (Standard) 90 mm (Maxi)

Consult DME according to the application

Expansion allowance between end caps and distributor tube: length \leq 600 mm = 1,5 mm length ≥ 600 mm = 3,0 mm

D

C

5,5 mm (Mini) 11,0 mm (Standard) 11,0 mm (Maxi)

Е

20 mm (Mini) 25 mm (Standard) 25 mm (Maxi)

F

45 mm (Micro) 45 mm (Mini) 55 mm (Standard) Consult DME according to 90 mm (Maxi) the application

G

70 mm (Micro) 70 mm (Mini) 80 mm (Standard) 115 mm (Maxi)

Н

20 mm (Mini) 25 mm (Standard) 25 mm (Maxi)

Center distance probe to tube:

Micro probes		
AFIP 3	ſ	13 mm with Mini distributor tube
	ļ	16 mm with Standard distributor tube
AFIP 4	ł	14 mm with Mini distributor tube
NA:	ι	17 mm with Standard distributor tube
Mini probes		
AFIP 5	ł	15,3 mm with Mini distributor tube
	ļ	18,4 mm with Standard distributor tube
AFIP (201-2/1)	Į	16 mm with Mini distributor tube
AFP(201-291N)	ι	19 mm with Standard distributor tube
o		
Standard probe	s	47
AFIP (301-601)	ſ	17 mm with Mini distributor tube
AFP (301-601N)	ſ	20 mm with Standard distributor tube
	L	29,5 mm with Maxi distributor tube
Mayinrohoe		

AFP(502-1102N) { 23 mm with Standard distributor tube 32,5 mm with Maxi distributor tube

J.

Insulating plate for cable protection: thickness 6 - 10 mm

K

- Center distance tube to tube
- -17 ± 0.5 mm for distributor tubes diameter 16 23,5 ± 0,5 mm for distributor tubes diameter 22,22 42,5 ± 0,5 mm for distributor tubes diameter 41,27
- 20 ± 0.5 mm for combination diameter 16 with
- diameter 22,22
- 33 ± 0.5 mm for combination diameter 22,22 with diameter 41,27

Centering ring

Position: pin always opposite the distributor tube

M Minimum distance of the cooling lines to the distributor bore and/or probe bore = 10 mm.



CONSTRUCTION INSTRUCTIONS

AFP -

Construction instructions







(*) Tube

* Consult DME depending on the application

Туре	Mini	Standard	Maxi
REF	AFP (201-291 N)	AFP (3016-601 N)	AFP (502-1102 N)
(*) Ø16 -> A	16	17	-
(*) Ø22,22 -> A	19	20	23
(*) Ø41,27 -> A	28,4	29,5	32,5
(*) Ø16 -> H	14,5	14,5	-
(*) Ø22,22 -> H	18,5	18,5	27,5
(*) Ø41,27 -> H	-	27,5	27,5
(*) Ø16 -> J*	24	-	-
(*) Ø22,22 -> J*	32	32	32
(*) Ø41,27 -> J*			
B MIN 23		26	32
C H7	Ø31	Ø34	Ø40
D1 H7	Ø14	Ø15,9	Ø22
E	Ø19,5	Ø24	Ø30,5
F	M22	M27	M32x1,5
T MIN	27	30	40
G MIN	25	27,5	27,5
I AFR 0+0,02	3,0	3,0	3,0
К	3	4	4
M Cable exit Straight		Straight	Straight
0	1,5	2	2
P MIN	0,8	1,0	1,0
٥	80°	80°	90°
R	6	8	13

B larger with AFR





Start up





GUIDELINES



— Info -

MOLD CHECK-OUT

- 1. Guidelines for zone numbering: Zone number 1 is the probe closest to the "U" corner. This is stamped on the mold and indicates the position of the undersized leader pin. The numbers for the other probes run in the most logical order (mostly clockwise). The distributor bores are next and the one closest to the "U" corner takes the next number. The remainder of the distributor bores are numbered working up through the different levels with the heated adapter taking the last number.
- 2. Connect electric power and thermocouples according to the wiring diagram.
- 3. Connect mold to the mold temperature controller.
- 4. Check mold cooling for operation.
- 5. Switch on temperature controller
- 6. Adjust in 50 °C increments until operating temperature is reached.



START-UP

- 1. Bring machine cylinder up to required temperature, purge cylinder and leave screw in forward position.
- 2. With machine in "Manual" mode, open mold and bring machine cylinder fully forward into molding position with machine nozzle in contact with the locator of the mold.
- 3. Set screw back pressure and RPM to maximum, and extrude material into distributor block until filled. Material should appear at gates. Screw will automatically recover, indicating that distributor block is full. (Setting the back pressure and screw RPM to max. are for filling block only and not for use during processing).
- 4. Turn on controllers with set points to the recommended melt temperature of the material being used.
- 5. When deviation meters have stabilized, the temperature set points have been attained and normal molding can now begin.
- 6. During injection adjust the temperature of the distributor, adaptor and machine so that perfect units are produced.





T.C.	MTC-5-G	MTC-8-G	MTC-12-G
Zone	+ -	+ -	+ -
1	1 - 6	1 - 9	1 - 13
2	2 - 7	2 - 10	2 - 14
3	3 - 8	3 - 11	3 - 15
4	4 - 9	4 - 12	4 - 16
5	5 - 10	5 - 13	5 - 17
6		6 - 14	6 - 18
7		7 - 15	7 - 19
8		8 - 16	8 - 20
9			9 - 21
10			10 - 22
11			11 - 23
12			12 - 24

SERVICING

- 1. Screwing of the mold plate to the distributor plate makes for easy access for mold separation. Remove fixing screws on the mold plate (fixed side), close press.
- 2. With mold closed, fix carrier or bolt to the mold plates. Open press slowly. Then one has access to all probes and gates. Remove any impurities at the gates. Close press. Remove carrier, replace fixing screws, open up mold. Screw mold plate to distributor plate.

CARTRIDGE HEATER REPLACEMENT

Distributor cartridge heater:

Switch off temperature controller, take out plug, cut off connection leads to the cartridge. Remove positioning screws and knock-out cartridge heater. It is not necessary to dismantle the mold.

Probe cartridge heater:

Switch off temperature controller, take out plugs. Close press and remove fixing clamps of the fixed half of the



GUIDELINES

Info -

Guidelines for the use of a distributor block

mold, fix carrier or bolt to the mold plates. Open press slowly. Then one has free access to all probe cartridge heaters. Remove hold down nuts, remove heater and replace with new one. Make sure all wire constructions are satisfactory and no wires can be trapped. Slowly close press and replace fixing screws. Remove carrier or bolts and open press. Reconnect power and thermocouple cables.

ASSEMBLY GUIDELINES FOR HCTC

Conditions:

Distributor bore and tube must be free from dirt, oil, and fats. Distance screw must be screwed into the correct position in the end caps. Wire channels must be large enough and all sharp edges removed.

Assembly :

Caution! Do not use any assembly materials as heat conductive paste, etc.. for the cartridge heaters.

1. The distributor cartridge heaters are pushed into the already assembled distributor tube until they reach the stop screw.

Caution! The distributor cartridge heater must fit easily into the bore.

- 2. Thermocouple and power cables can then be connected to the terminal housings.
- 3. Continuity checks on the connected heating elements should be carried out using a universal electrical measuring appliance.

Caution! Before commissioning the hot-runner system, re-check that the distributor cartridge heaters lie against the stop screws.





Accessories





WIRING INSTRUCTIONS



– Info -

Wiring instructions

Wiring instructions for DME heaters

- 1. Power wires can only be extended with crimp connectors (HWCC-1,2 and 5) and power wires of the same cross-section area (total length max. 8 m).
- 2. Fe-Co thermocouple wires can only be extended with Fe-Co wires. With the exception of the polarity of the extension cable (US standards: red = negative, white = positive; European standards: red = positive, blue = negative). One must take care that the thermocouple wires are in good contact with the cable joint.
- 3. Mold power input connector (PIC-24-G) and terminal mounting box (PTCX, PICX, PTC) must be connected with the protective conductor to the mold.
- 4. Take care that wiring is correct to the position of the modules.
- 5. Use Ohm-meter to check each heater for proper function prior to starting the **DME** Hot Runnerless System.

Wiring diagram

Thermocouple cable





THERMOCOUPLE ACCESSORIES



I hermocouples cables		UE
REF	Identificat	ion
OE160-5	FoCo Thermosourlesspher(***teheorderedperm)	16poles0,5mm2(FeCo)
0E240-5	reco mermocoupiescables(**tobeordereaperm.)	24poles0,5mm2(FeCo)

POWER ACCESSORIES







MOUNTING BOXES



Terminal mounting boxes for power and thermocouple connectors

REF	а	b	с	х	У	Installation possibilities for					
PTCX5K											PIC24G / MTC5G
PTCX8K	70	70	55	243	258	PIC24G / MTC8G					
PTCX12K					PIC24G / MTC12G						

 * Distance of mounting screws on the mold with M5 x 15.



* Distance of mounting screws on the mold with M5 x 15.



Terminal mounting boxes for power and thermocouple connectors

REF	а	b	с	х	у	Installation possibilities for
PTC5TBG	105	60	38	205	220	PIC5G / MTC5G
PTC8TBG	105	60	38	225	240	PIC8G / MTC8G
PTC12TBG	105	60	38	253	265	PIC12G / MTC12G

 $\,^*$ Distance of mounting screws on the mold with M5 x 15.

MOUNTING



— Info

Mounting without Boxes

Pocket for thermocouple connectors MTC...G



Note: Drawing depicts below flush mounting. For surface mounting, disregard dimensions marked with *.



Dimensions	For connector		
	MTC5G	MTC8G	MTC12G
A	83	103	130
В	41,5	51,5	65
С	65	85	112
D	32,5	42,5	56
E	51	61	74,5
F	102	122	149

Pocket for mold power input connectors PIC24G



Note: Drawing depicts below flush mounting. For surface mounting, disregard dimensions marked with *.





ASSEMBLY TOOLS



REF	for
EA N2416	VN01241620
FAIN2410	VN02241620

ASSEMBLY TOOLS





——— HWCC —

Crimp connectors





Fuses for SSMX and DSS

REF	Amp.
ABC1	1
ABC5	5
ABC10	10
ABC15	15





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GENERAL CONDITIONS OF SALE DME EUROPE

1. CONCLUSION OF CONTRACT - APPLICATION

The contract is validly entered into and the order is accepted after written confirmation by seller. These sales conditions apply to the exclusion of any other terms or conditions, unless expressly accepted in writing beforehand by the vendor.

Seller has 30 (thirty) days since the reception of the order to accept or to refuse it. During this period, buyer shall not withdraw his order.

Absence of any written confirmation of the order shall only be interpreted as being an implicit acceptance in case of performance of the order by seller.

2. PAYMENT

Unless otherwise agreed in writing, invoices are payable in the stated currency within 30 (thirty) days after invoice date to the-bank designated by seller. Transfer charges are for account of buyer.

If buyer does not pay within this term, seller shall automatically have ipso jure and without any prior formal notice, the right to charge legal interest plus 2 % from due date of the invoice. Moreover, in case of late payment, a fixed indemnity corresponding to 10 % of the payable amount shall automatically be due from the first day following the due date, without prejudice to seller's right to prove higher damage and ask for corresponding indemnity. Should payment be in foreign currency, seller has the right to adapt the foreign currency in case of depreciation-of this foreign currency in regard of the euro.

Should payment of the delivered goods be in instalments, the non-payment of one of the instalments gives seller the right to terminate the contract. The payments, which were done until then, shall remain property of seller as indemnity, without prejudice to the right to claim further damages or to the right to require the performance of the contract.

Payment of advance shall not give buyer the right to terminate the contract upon reimbursement of the paid advance, If payment is done by bill of exchange or check, payment is deemed satisfied only when the bill of exchange or the check is honoured.

Place of payment is always Mechelen even if payment is done with bill of exchange.

3. RETENTION OF TITLE

Delivered goods remain property of seller until full payment has been received by seller. The sale of an unpaid item by buyer to a third party results in automatic assignment of the debt due by the third party to buyer, inclusively the retention of title, to seller. Seller has then the authority to take any necessary means in order to validly assign towards the third party. Seller may retake unpaid goods at any time and he may inform any client and/or any subcontractor of buyer about the fact that seller is and remains the only owner of the concerned goods until full payment.

The purchaser undertakes to carefully keep the goods that have not been paid for, and undertakes not to pledge them or use them in any other way as a guarantee or security. The purchaser shall inform third parties who may apply any security rights over his assets (such as, but not limited to, the lessor of the premises occupied by the purchaser) that the products are and shall remain the property of the vendor until full payment of all sums owed by the purchaser to the vendor, and in the event of an attachment

or other measures taken by third parties that apply to products for which full payment has not yet been made the purchaser undertakes to immediately inform the vendor of this to enable him to apply his rights.

4. RISKS

Notwithstanding the preceding provisions, the risk transfers to buyer as soon as he has the goods at his disposal.

5. DISPATCHING OF INSIGNIFICANT VALUE

Each dispatch of less than \in 50 will be increased with costs of payments andmay, at sellers option, be sent cash on delivery (COD).

6. PRICE OFFERS AND PRICE LISTS

Price offers and price lists are without obligation and are subject to change without any previous notice.

Any information released by seller is delivered in good faith and seller shall not be responsible for the choice of material and goods.

7. PRICE AND DISPATCHING

All prices are ex works. Transportation, duties and taxes for account of buyer, unless seller's previous and express written specification to the contrary. Seller shall send goods by the fastest and most economic way at the risks of buyer. Goods may be insured by seller at buyer's option, the insurance premiums are for buyer. Seller is not responsible for the choice of packing.

8. DELIVERY

Date of delivery is the date when the goods are ready for inspection at the indicated place. Place of origin is Mechelen, Belgium, or any other place indicated by seller. Seller is not responsible for any late delivery, except those delays due to his own fault or gross negligence.

9. RETURNING OF GOODS

No goods can be returned without seller's previous, express and written consent. If buyer commits an error in ordering, the retaking of goods is possible only for inventory standard items. Goods must be returned within 15 (fifteen) days after invoice date and all goods must be in original conditions,' all costs of transport are for buyer, as well as insurance and repacking costs. Special-order goods, marked or used items are non-returnable.

10. DEFECTS

Seller warrants defects in material and/or workmanship. Warranty is limited to the replacement or repair, at seller's option, of any merchandise found defective during 1 month. This warranty does not include defects due to buyer's fault or to abnormal use, bad maintenance, imperfect installation, buyer's inadequate repair, unforeseeable circumstances or in case changes were brought to material without previous and express written approval of seller.

Notice of conspicuous defects must be given to seller by registered letter sent within 10 (ten) working days following date of delivery.

Notice of hidden defects must be given to seller by registered letter with in 10 (ten) working days after date of discovery, and in any case, within a 10-month term following date of delivery. Seller is not responsible for any damage and in particular salary and material

Seller is not responsible for any damage and in particular salary and material costs, losses, loss of profit or loss of a chance incurred by buyer, unless it is demonstrated that defect is due to seller's gross or intentional fault. If seller is responsible for defect, seller has the right either to terminate the contract and to pay back all the invoiced prices or to replace the delivered product within a reasonable term. If goods for repair must be transported, costs and risks of this transport are for buyer.

In case seller is responsible for any damage, this will be limited to the foreseeable damage with a maximum amount corresponding to the amount of the product's invoiced price.

Should a third party lodge a claim against seller to obtain payment of an indemnity for a damage for which seller is not responsible in accordance with the present conditions or for a higher amount than the one seller is responsible for, buyer will warrant seller against those claims.

11. DESCRIPTION

Only product descriptions used in seller's latest literature and correspondence with buyer, are binding for description of goods.

Buyer is responsible for using items in conformity with all regulations, including but not limited to, the safety regulations in force at the place of use.

12. SPECIFIC ORDERS

For the performance of a special work, the project signed by buyer is binding to the extent it has been accepted by seller.

For the performance of such work, special conditions may be required. In case of any inconsistency between general conditions and special conditions, the special conditions shall apply. Should special conditions be unclear, they shall be interpreted in light of the general conditions.

13. ACT OF GOD

Seller shall not pay any damage for non-performance or late performance of his undertakings due to Act of God. Act of God includes in particular and without being limited thereto, strike, lock-out, and the non-performance by seller's suppliers of their undertakings.

14. VALIDITY AND INDIVIDUAL CLAUSES

If one or more provisions of these present general conditions are held to be invalid, the remaining provisions will continue to be valid and enforceable, and parties will agree upon other provisions having an economic effect that corresponds closest to the economic effect of the invalid provision(s).

15. WAIVER

In case seller does not exercise one of his rights in accordance with the present conditions, this shall not be interpreted as a waiver of these rights.

16. APPLICABLE LAW – COMPETENT COURTS

This sales contract will be governed by Belgian law. The competent court is the Commercial Court of Mechelen, without prejudice to seller's right to introduce the case before another competent court.



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