

AFS PLUS



*ADVANCED HEATING SOLUTIONS*

The widest range of  
off-the-shelf cartridge heaters

## AFS PLUS

AFS PLUS is the complete line of HT's heaters Always Ready From Stock.

In HT's AFS PLUS LINE you can find standard or thermocouple-fitted heaters suitable for a great number of industrial applications both for replacements in existing machines and for new plants.

All AFS PLUS products are manufactured in the high-temperature version and vary considerably in forms, fixing means, types of sleeves, construction, and dimensions which can be both metric and imperial.



### GENERAL TECHNICAL FEATURES

AFS PLUS	CARTRIDGE HEATERS WITH AND WITHOUT TYPE "J" THERMOCOUPLE							
AVAILABLE DIAMETERS	mm	6,50	8,00	10,00	12,50	16,00	20,00	
	inches	1/4"	3/8"	1/2"	5/8"			
AVAILABLE LENGTHS	mm						Min. 25 ÷ max 400	
	inches						Min. 1" ÷ max 12"	
STANDARD LEADS LENGTHS	mm						1000 +/- 10	
	inches						39,37" +/- 0,39"	

**RANGE OF LOADINGS:** W50 ÷ W2500 - **VOLTAGE** V230 - **TOLERANCE ON DIA.:** -0.02 / -0.07

**TOLERANCE ON LENGTH:** up to 100 mm +/-2 mm; above 100 mm +1/-3%

**TOLERANCE ON WATTAGE:** +5/-10%

**ALL THE ITEMS IN THE AFS PLUS RANGE CAN BE SHIPPED WITHIN 10 WORKING DAYS FROM ORDER RECEIPT.**

## AFS PLUS Line selection tables

The following tables show the standard dimensions of the AFS PLUS heaters always available from stock. They are binding for each of the different versions of this line of products.

### AFSPPLUS LINE HIGH TEMPERATURE CARTRIDGE HEATERS HT/YT 95-96000 SERIES

D (mm)	L (mm)	W	NO.	D (mm)	L (mm)	W	NO.	D (mm)	L (mm)	W	NO.
6,5	25	100	HT96067	6,5	160	450	HT96082	10	30	100	HT96110
		125	HT96068			500	HT96083			125	HT96111
		150	HT96069				150			HT96112	
		175	HT96070				175			HT96113	
	30	100	HT96071		125	HT96114					
		125	HT96072	30	100	HT95026					
		150	HT96073		125	HT95027					
		175	HT96074		160	HT95687					
		200	HT96075		40	200	HT95028				
		40	100			HT95251	100		HT95001		
	125		HT95252			125	HT96089				
	160		HT95662	140		HT95673					
	180		HT95663	160		HT95002					
	200		HT95254	200		HT95003					
	250		HT96076	250	HT95004						
	250		HT95005	40	125	HT95005					
	100	HT95255	160		HT95674						
	125	HT95664	200		HT95006						
	160	HT95256	250		HT95007						
	200	HT95257	320		HT95008						
	250	HT95258	125		HT95009						
	125	HT95259	160		HT95675						
	60	160	HT95260	60	200	HT95010					
		180	HT95665		250	HT95011					
		200	HT95261		280	HT95676					
		250	HT95262		320	HT95012					
		320	HT95666		400	HT95677					
		400	HT95677		80	160	HT95678				
	125	HT95263	200	HT95014							
	160	HT95667	250	HT95015							
	180	HT95264	280	HT95679							
	200	HT95265	320	HT95680							
	250	HT95266	400	HT95017							
	80	320	HT95267	80	400	HT96090					
		350	HT96077		160	HT95681					
		125	HT95268		200	HT95018					
		160	HT95668		250	HT95019					
		200	HT95269		280	HT95682					
		250	HT95270		320	HT95020					
		320	HT95669		400	HT95021					
		350	HT95271		200	HT95683					
	400	HT95670	100	250	HT95022						
	150	HT96078		320	HT95023						
	200	HT96079		400	HT95684						
	250	HT95272		250	HT95685						
	300	HT95671		320	HT95686						
	350	HT95672		160	450	HT95025					
400	HT95273	500	HT96091								
200	HT96080	600	HT96092								
250	HT96081										
300	HT95274										
350	HT95275										
400	HT95276										
100	100			8	130			100	100	150	HT96115
						200	HT95048				
						250	HT95049				
						350	HT95051				
						400	HT95052				
						500	HT95053				
	130	320	HT95669				650		HT95054		
		350	HT95271				850		HT95692		
		400	HT95670				250		HT96116		
		150	HT96078				320		HT95055		
		200	HT96079				400		HT95056		
		250	HT95272				500		HT95057		
		300	HT95671				650		HT95058		
160	350	HT95672		800	HT95059						
	400	HT95273		400	HT95060						
	200	HT96080		500	HT95693						
	250	HT96081		650	HT95061						
	300	HT95274		800	HT95694						
	350	HT95275		400	HT95062						
	400	HT95276		500	HT95695						

# AFS PLUS Line selection tables

D (mm)	L (mm)	W	NO.
10	200	650	HT95063
		800	HT95696
		1000	HT96117
	250	500	HT95697
		650	HT95698
		800	HT95699
		1000	HT95700

12,5	40	125	HT95701
		160	HT95702
		200	HT95703
		250	HT95064
		320	HT95704
		400	HT95066
	50	500	HT96118
		160	HT95067
		200	HT95068
		250	HT95705
		320	HT95706
		400	HT95071
	60	500	HT95707
		600	HT96119
		160	HT95708
		200	HT95072
		250	HT95073
		320	HT95709
	80	400	HT95076
		500	HT95077
		600	HT96120
		160	HT95710
		200	HT95711
		250	HT95078
	100	320	HT95712
		400	HT95081
		500	HT95082
		650	HT95713
		800	HT95084
		250	HT95714
	130	320	HT95715
		400	HT95085
		500	HT95086
		650	HT95087
		800	HT95088
		1000	HT95089
	130	250	HT96121
		320	HT95716
		400	HT95090
		500	HT95091
		650	HT95092
		800	HT95093
1000	HT95431		

D (mm)	L (mm)	W	NO.
12,5	130	1250	HT96122
		500	HT95095
	160	650	HT95096
		800	HT95097
		1000	HT95718
		1300	HT95098
	180	600	HT96123
		750	HT96124
		1.000	HT96125
	200	1.300	HT96126
		650	HT95719
		800	HT95720
		1000	HT95100
		1250	HT96127
		1500	HT95721
	250	800	HT95101
		1000	HT95722
		1250	HT96128
		1500	HT95102
		2000	HT96129
		2500	HT96130
	300	600	HT96131
		800	HT95723
		1000	HT95103
1300		HT96132	
1600		HT95104	
2000		HT96133	
2500	HT96134		

16	40	200	HT95724
		250	HT95107
		320	HT95725
	50	400	HT95108
		500	HT95726
		200	HT95727
		250	HT95110
		320	HT95728
		400	HT95111
	60	500	HT95729
		650	HT95730
		200	HT95112
		250	HT95731
		320	HT95732
		400	HT95114
	80	500	HT95733
		650	HT95115
		250	HT95734
		320	HT95735
		400	HT95116
		500	HT95117
	650	HT95118	

D (mm)	L (mm)	W	NO.
16	80	800	HT95119
		1000	HT95736
	100	320	HT95737
		400	HT95120
		500	HT95121
		650	HT95122
		800	HT95123
		1000	HT95124
	130	1250	HT95125
		400	HT95738
		500	HT95126
		650	HT95127
		800	HT95128
		1000	HT95129
	160	1250	HT95739
		500	HT95740
		650	HT95741
		800	HT95742
		1000	HT95743
		1250	HT95744
	180	1600	HT95745
		800	HT96165
		1000	HT96166
		1250	HT96167
1600		HT96168	
500		HT95130	
200	800	HT95131	
	1000	HT95132	
	1250	HT95133	
	1600	HT95746	
	2000	HT95134	
	500	HT96169	
250	800	HT95747	
	1000	HT95135	
	1250	HT95136	
	1600	HT95137	
	2000	HT95748	
	800	HT96170	
300	1000	HT95138	
	1250	HT95139	
	1600	HT95749	
	2000	HT95141	
	2500	HT96171	
	750	HT96172	
350	1000	HT96173	
	1300	HT96174	
	1600	HT96175	
	2000	HT96176	
	2500	HT96177	
	1000	HT95142	
400	1400	HT95143	

## AFS PLUS Line selection tables

D (mm)	L (mm)	W	NO.
16	400	2000	HT95144
		2500	HT95145
20	60	320	HT95750
		500	HT95751
		800	HT95752
		320	HT95753
		500	HT95754
		800	HT95755
	80	1000	HT95756
		1250	HT96178
		500	HT95757
		800	HT95758
		1000	HT95759
		1250	HT95760
	100	1600	HT95761
		650	HT95762
		1000	HT95763
		1250	HT95764
		1600	HT95765
		2000	HT95766
130	800	HT95767	
	1000	HT95768	
	1250	HT95769	
	1600	HT95770	
	2000	HT95771	
	1000	HT95772	
160	1600	HT95773	
	2000	HT96179	
	2500	HT95774	
	1000	HT96180	
200	1250	HT95775	
	2000	HT95776	
	2500	HT95777	
	1600	HT95778	
250	2200	HT96181	
	2500	HT95779	
	2000	HT96183	
	2500	HT96184	
300	3000	HT96185	
	1600	HT95780	
	2500	HT95781	
	3000	HT96186	
350	3500	HT96187	
	4000	HT96188	

D (mm)	L (mm)	W	THERMO COUPLE	NO.	
6,5	40	100	YES	YT95317	
		150	YES	YT95318	
		200	YES	YT95319	
	50	200	YES	YT95320	
		200	YES	YT95321	
		250	YES	YT95322	
	60	350	YES	YT95836	
			200	YES	YT95805
			250	YES	YT95806
		80	350	YES	YT95807
			250	YES	YT95808
			250	YES	YT95808
8	100	350	YES	YT95323	
		40	100	YES	YT95324
		50	130	YES	YT95325
	50	250	YES	YT95326	
		60	170	YES	YT95809
		250	YES	YT95327	
		80	200	YES	YT95810
			320	YES	YT95329
			250	YES	YT95811
	100	320	YES	YT95331	
		400	YES	YT95812	
		130	250	YES	YT95813
400			YES	YT95332	
40			200	YES	YT95333
10		50	250	YES	YT95334
	250		YES	YT95335	
	60	400	YES	YT95336	
		250	YES	YT95337	
	80	320	YES	YT95338	
		400	YES	YT95814	
		100	250	YES	YT95815
	350		YES	YT95339	
	160		400	YES	YT95816

## AFS PLUS Line selection tables

D (in.)	D (mm)	L (in.)	L (mm)	W	NO.	D (in.)	D (mm)	L (in.)	L (mm)	W	NO.				
1/4	6,35	1	25,4	50	HT95277	3/8	9,52	1 1/4	31,7	200	HT96098				
				100	HT95278					100	HT95147				
				125	HT96056			1 1/2	38,1	150	HT95148				
				150	HT95279					200	HT95149				
				175	HT96057					300	HT95150				
				200	HT95280			2	50,8	100	HT95151				
		100	HT96058	150	HT95152										
		150	HT96059	200	HT95153										
		175	HT96060	300	HT95154										
		200	HT96061	2 1/2	63,5			400	HT96099						
		100	HT95281					500	HT95155						
		150	HT95282					100	HT96100						
		1 1/2	38,1	200	HT95283			200	HT95156	3	76,2	3 1/2	88,9	300	HT95157
								250	HT95284					400	HT95158
								100	HT95286					150	HT96101
		2	50,8	200	HT95288			150	HT95287	4	101,6	5	127,0	200	HT95160
								250	HT95289					300	HT95161
								300	HT95290					400	HT95162
		2 1/2	63,5	300	HT95293			150	HT95293	5	127,0	6	152,4	500	HT95163
								200	HT95294					600	HT96102
								250	HT95295					300	HT96103
								300	HT95296					400	HT96104
								400	HT95298					500	HT95164
								150	HT95299					500	HT95164
		3	76,2	200	HT95300			200	HT95300	6	152,4	7	177,7	200	HT95165
								250	HT95301					300	HT95166
								300	HT95302					400	HT95167
								400	HT95304					500	HT95168
		3 1/2	88,9	200	HT95306			200	HT95306	7	177,7	8	203,2	600	HT95169
								300	HT95308					750	HT96105
								400	HT95782					400	HT95170
		4	101,6	450	HT96062			450	HT96062	8	203,2			500	HT95171
								175	HT96063					800	HT95172
								250	HT95309					1000	HT96106
								300	HT95310					400	HT95173
		5	127,0	350	HT95311			350	HT95311	8	203,2			500	HT95174
								300	HT95312					600	HT95175
								350	HT95313					800	HT95176
		6	152,4	400	HT96064			400	HT96064	8	203,2			1000	HT96107
								300	HT96065					500	HT95177
								400	HT95315					600	HT95178
								500	HT95316					800	HT95179
3/8	9,52	1	25,4	600	HT96066	8	203,2			1000	HT96108				
				100	HT96093					600	HT95180				
				150	HT96094					800	HT95181				
				200	HT95146					1000	HT96109				
1 1/4	31,7	100	HT96095	100	HT96095										
				125	HT96096										
				150	HT96097										

## AFS PLUS Line selection tables

D (in.)	D (mm)	L (in.)	L (mm)	W	NO.	D (in.)	D (mm)	L (in.)	L (mm)	W	NO.	
1/2	12,70	1	25,4	100	HT96135	1/2	12,70	7	177,7	800	HT95215	
			25,4	150	HT96136				177,7	1000	HT95216	
			25,4	175	HT96137				177,7	1500	HT95787	
			25,4	200	HT96138				203,2	600	HT95788	
			25,4	250	HT96139				203,2	800	HT95217	
		1 1/4	31,7	100	HT96140			8	203,2	1000	HT95218	
			31,7	125	HT96141				203,2	1500	HT95219	
			31,7	150	HT96142				203,2	2000	HT96152	
			31,7	200	HT96143				9	228,6	1000	HT95220
			31,7	250	HT96144					228,6	1500	HT95221
		1 1/2	38,1	175	HT96145	10	228,6	2000	HT96153			
			38,1	200	HT95182		254,0	800	HT96154			
			38,1	250	HT96146		254,0	1000	HT95222			
			38,1	300	HT95183		254,0	1500	HT95223			
		2	50,8	200	HT96147	12	254,0	2000	HT95224			
			50,8	250	HT95184		304,8	750	HT96155			
			50,8	300	HT95185		304,8	1000	HT95789			
			50,8	400	HT95186		304,8	1500	HT95225			
			50,8	500	HT95783		304,8	2000	HT95226			
		2 1/2	63,5	250	HT95187	5/8	15,87	2	50,8	200	HT95227	
			63,5	300	HT95188				50,8	300	HT95790	
			63,5	400	HT95189				50,8	500	HT95791	
			3	76,2	250			HT96148	2 1/2	63,5	250	HT95228
		76,2		300	HT95191			63,5		300	HT95229	
		76,2		400	HT95192			63,5		400	HT95230	
		76,2		500	HT95193			63,5		500	HT95792	
		76,2		600	HT95194			63,5		750	HT96156	
		3 1/2	88,9	300	HT95784			3	76,2	300	HT95793	
			88,9	350	HT96149				76,2	400	HT95231	
			88,9	500	HT95195				76,2	500	HT95232	
			88,9	750	HT95197				76,2	750	HT95794	
		4	101,6	350	HT95198	4	76,2	1000	HT95795			
			101,6	400	HT95199		101,6	400	HT95796			
			101,6	500	HT95200		101,6	500	HT95234			
			101,6	600	HT95201		101,6	600	HT95235			
			101,6	800	HT95202		101,6	750	HT95236			
			101,6	1000	HT95203		101,6	1000	HT95237			
		5	127,0	350	HT96150	5	101,6	1250	HT95797			
			127,0	400	HT95785		127,0	600	HT95238			
			127,0	500	HT95204		127,0	800	HT95239			
			127,0	600	HT95205		127,0	1000	HT95240			
			127,0	750	HT95206		127,0	1300	HT96157			
		6	152,4	400	HT96151	6	152,4	600	HT96158			
			152,4	500	HT95786		152,4	800	HT95241			
			152,4	600	HT95209		152,4	1000	HT95242			
			152,4	750	HT95210		152,4	1250	HT96159			
			152,4	1000	HT95212		152,4	1500	HT95243			
7	177,7	500	HT95213	7	177,7	1000	HT95244					
						177,7	1250	HT96160				
						177,7	1500	HT95245				

D (in.)	D (mm)	L (in.)	L (mm)	W	NO.
<b>5/8</b>	<b>15,87</b>	<b>8</b>	203,2	800	HT95798
			203,2	1000	HT95246
			203,2	1250	HT95799
			203,2	1500	HT95247
			203,2	1750	HT96161
			203,2	2000	HT95248
		<b>10</b>	254,0	750	HT96162
			254,0	1000	HT95800
			254,0	1300	HT95249
			254,0	1600	HT95250
			254,0	2000	HT95801
			<b>12</b>	304,8	750
		304,8		1000	HT95802
		304,8		1600	HT95803
		304,8		2000	HT95804
		304,8		2500	HT96164

D (in.)	D (mm)	L (in.)	L (mm)	W	THERMO COUPLE	NO.
<b>1/4</b>	<b>6,35</b>	<b>1 1/2</b>	38,1	100	YES	YT95817
			38,1	200	YES	YT95818
		<b>2</b>	50,8	125	YES	YT95819
			50,8	200	YES	YT95820
		<b>2 1/2</b>	63,5	250	YES	YT95821
			76,2	250	YES	YT95822
		<b>4</b>	101,6	200	YES	YT95823
			101,6	300	YES	YT95824
<b>3/8</b>	<b>9,52</b>	<b>1 1/2</b>	38,1	200	YES	YT95825
		<b>2</b>	50,8	250	YES	YT95826



## Form for the identification of special heaters

### STEP 1 - VERSIONS AND DIMENSIONS

<input type="checkbox"/> STYLE HT		<input type="checkbox"/> STYLE HE		<input type="checkbox"/> STYLE HD	
<input type="checkbox"/> STYLE HF		<input type="checkbox"/> STYLE HH		<input type="checkbox"/> STYLE HL	
<input type="checkbox"/> DRAWING FOR DIFFERENT VERSIONS					
DIMENSIONS ACCORDING TO CHOSEN STYLE			D mm	L mm	
Notes			Tolerance	Tolerance	





### STEP 2 - THERMOCOUPLE CHOICE

HEATER WITHOUT THERMOCOUPLE <input type="checkbox"/>	HEATER + K THERMOCOUPLE <input type="checkbox"/>	HEATER + J THERMOCOUPLE <input type="checkbox"/>
	GROUNDED THERMOCOUPLE <input type="checkbox"/>	INSULATED THERMOCOUPLE <input type="checkbox"/>

### STEP 3 - ELECTRICAL FEATURES

LOADING W	TENSION V
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### STEP 4 - LEAD PROTECTION TYPES

			
NO PROTECTION <input type="checkbox"/>	FIBREGLASS SLEEVE <input type="checkbox"/>	METAL BRAID <input type="checkbox"/>	FLEXIBLE METAL CONDUIT <input type="checkbox"/>
LEADS LENGTH (mm)	PROTECTION LENGTH (mm)	NOTES: Please specify different protection types or special requirements linked to temperature or electrical connections	

### STEP 5 - WORKING ENVIRONMENT

AIR <input type="checkbox"/>	LIQUID <input type="checkbox"/>	TYPE	METAL <input type="checkbox"/>	TYPE
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### STEP 6 - WORKING TEMPERATURE

-30°C/100°C	MAX 300°C	MAX 400°C	MAX 500°C	MAX 600°C	MAX 700°C	OTHER
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### STEP 7 - REQUIRED QUANTITY

NO. OF PIECES	NOTES
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### STEP 8 - CONTACT DETAILS

COMPANY	MR/MS
---------	-------

ADDRESS	WWW
---------	-----

	E-MAIL
--	--------

	FAX
--	-----

COUNTRY	PHONE
---------	-------



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He also reserves the right to make at any time all the modifications he will deem necessary to improve his products without notice.