

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	HT96085		200	HT96114	
		125	HT96072	30	150	HT96086	100		HT95026		
		150	HT96073		175	HT96087	125		HT95027		
		175	HT96074		200	HT96088	160		HT95687		
		200	HT96075		100	HT95001	200		HT95028		
		40	100		HT95251	40	125		HT96089	250	HT95029
	125		HT95252		140		HT95673		320	HT95030	
	160		HT95662	160	HT95002		100		HT95031		
	180		HT95663	200	HT95003		160		HT95032		
	200		HT95254	250	HT95004		200		HT95033		
	250		HT96076	125	HT95005		250		HT95034		
	100		HT95255	160	HT95674		320		HT95688		
	125		HT95664	200	HT95006		400		HT95035		
	50	160	HT95256	50	250	HT95007	125		HT95689		
		200	HT95257		320	HT95008	160		HT95036		
		250	HT95258		125	HT95009	200		HT95690		
		125	HT95259		160	HT95675	250		HT95038		
	60	160	HT95260	60	200	HT95010	320		HT95039		
		180	HT95665		250	HT95011	400		HT95040		
		200	HT95261		280	HT95676	500		HT95041		
		250	HT95262		320	HT95012	160		HT95042		
		320	HT95666		400	HT95677	200		HT95691		
		125	HT95263		160	HT95678	250		HT95043		
	80	160	HT95667	80	200	HT95014	320		HT95044		
		180	HT95264		250	HT95015	400		HT95045		
		200	HT95265		280	HT95679	500		HT95046		
		250	HT95266		320	HT95680	650		HT95047		
		320	HT95267		400	HT95017	150		HT96115		
		350	HT96077		400	HT96090	200		HT95048		
	100	125	HT95268	100	160	HT95681	250		HT95049		
		160	HT95668		200	HT95018	350		HT95051		
		200	HT95269		250	HT95019	400		HT95052		
		250	HT95270		280	HT95682	500		HT95053		
		320	HT95669		320	HT95020	650		HT95054		
		350	HT95271		400	HT95021	850		HT95692		
		400	HT95670		200	HT95683	250		HT96116		
		150	HT96078		250	HT95022	320		HT95055		
	130	200	HT96079	130	320	HT95023	400		HT95056		
		250	HT95272		400	HT95684	500		HT95057		
		300	HT95671		250	HT95685	650		HT95058		
		350	HT95672		320	HT95686	800		HT95059		
		400	HT95273		450	HT95025	400		HT95060		
		200	HT96080		500	HT96091	500		HT95693		
	160	250	HT96081	160	600	HT96092	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
		500	HT95707
		600	HT96119
	60	160	HT95708
		200	HT95072
		250	HT95073
		320	HT95709
		400	HT95076
		500	HT95077
	80	600	HT96120
		160	HT95710
		200	HT95711
		250	HT95078
		320	HT95712
		400	HT95081
		500	HT95082
		650	HT95713
		800	HT95084
		250	HT95714
		320	HT95715
		400	HT95085
	100	500	HT95086
		650	HT95087
		800	HT95088
		1000	HT95089
		250	HT96121
		320	HT95716
	130	400	HT95090
		500	HT95091
		650	HT95092
		800	HT95093
1000		HT95431	

D (mm)	L (mm)	W	NO.
12,5	130	1250	HT96122
		500	HT95095
		650	HT95096
	160	800	HT95097
		1000	HT95718
		1300	HT95098
		600	HT96123
	180	750	HT96124
		1.000	HT96125
		1.300	HT96126
	200	650	HT95719
		800	HT95720
		1000	HT95100
		1250	HT96127
		1500	HT95721
		800	HT95101
	250	1000	HT95722
		1250	HT96128
		1500	HT95102
		2000	HT96129
		2500	HT96130
		600	HT96131
	300	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
		320	HT95737
	100	400	HT95120
		500	HT95121
		650	HT95122
		800	HT95123
		1000	HT95124
		1250	HT95125
	130	400	HT95738
		500	HT95126
		650	HT95127
		800	HT95128
		1000	HT95129
		1250	HT95739
	160	500	HT95740
		650	HT95741
		800	HT95742
		1000	HT95743
		1250	HT95744
		1600	HT95745
	180	800	HT96165
		1000	HT96166
		1250	HT96167
1600		HT96168	
500		HT95130	
800		HT95131	
200	1000	HT95132	
	1250	HT95133	
	1600	HT95746	
	2000	HT95134	
	500	HT96169	
	800	HT95747	
250	1000	HT95135	
	1250	HT95136	
	1600	HT95137	
	2000	HT95748	
	800	HT96170	
	1000	HT95138	
300	1250	HT95139	
	1600	HT95749	
	2000	HT95141	
	2500	HT96171	
	750	HT96172	
	1000	HT96173	
350	1300	HT96174	
	1600	HT96175	
	2000	HT96176	
	2500	HT96177	
	1000	HT95142	
	1400	HT95143	

## AFS PLUS Line selection tables

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

D (mm)	L (mm)	W	THERMO COUPLE	NO.	
<b>6,5</b>	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
100	350	YES	YT95323		
<b>8</b>	40	100	YES	YT95324	
		130	YES	YT95325	
		250	YES	YT95326	
	60	170	YES	YT95809	
		250	YES	YT95327	
		200	YES	YT95810	
	80	320	YES	YT95329	
		250	YES	YT95811	
		320	YES	YT95331	
	100	400	YES	YT95812	
		250	YES	YT95813	
		400	YES	YT95332	
<b>10</b>	40	200	YES	YT95333	
		250	YES	YT95334	
		250	YES	YT95335	
	60	400	YES	YT95336	
		250	YES	YT95337	
		320	YES	YT95338	
	80	400	YES	YT95814	
		250	YES	YT95815	
		350	YES	YT95339	
	100	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	38,1			200	HT95283	2 1/2	63,5	300	HT95156	200	HT95156
								250	HT95284					300	HT95157
								100	HT95286					400	HT95158
				150	HT95287			150	HT96101						
				200	HT95288			200	HT95160						
				250	HT95289			300	HT95161						
		2	50,8	300	50,8			300	HT95290	3	76,2	400	HT95162	400	HT95162
								150	HT95293					500	HT95163
								200	HT95294					600	HT96102
				250	HT95295			300	HT96103						
				300	HT95296			400	HT96104						
				400	HT95298			500	HT95164						
		2 1/2	63,5	400	63,5			150	HT95299	3 1/2	88,9	500	HT95164	200	HT95165
								200	HT95300					300	HT95166
								250	HT95301					400	HT95167
				300	HT95302			500	HT95168						
				400	HT95304			600	HT95169						
				200	HT95306			750	HT95105						
		3	76,2	300	76,2			300	HT95308	4	101,6	400	HT95170	400	HT95170
								400	HT95782					500	HT95171
								450	HT96062					800	HT95172
				175	HT96063			1000	HT96106						
				250	HT95309			400	HT95173						
				300	HT95310			500	HT95174						
		3 1/2	88,9	350	88,9			350	HT95311	5	127,0	600	HT95175	600	HT95175
								300	HT95312					800	HT95176
								300	HT95313					1000	HT96107
				400	HT96064			500	HT95177						
				300	HT96065			600	HT95178						
				400	HT95315			800	HT95179						
4	101,6	500	101,6	500	HT95316	6	152,4	1000	HT96108	1000	HT96108				
				600	HT96066					600	HT95180				
				100	HT96093					800	HT95181				
		150	HT96094	1000	HT96109										
		200	HT95146												
		100	HT96095												
3/8	9,52	1 1/4	31,7	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.	
<b>1/2</b>	<b>12,70</b>	1	25,4	100	HT96135	<b>1/2</b>	<b>12,70</b>	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				228,6	1000	HT95220	
		1 1/2	31,7	250	HT96144			9	228,6	1500	HT95221	
			38,1	175	HT96145				228,6	2000	HT96153	
			38,1	200	HT95182				254,0	800	HT96154	
			38,1	250	HT96146	10	254,0		1000	HT95222		
		2	38,1	300	HT95183		254,0	1500	HT95223			
			50,8	200	HT96147		254,0	2000	HT95224			
			50,8	250	HT95184		304,8	750	HT96155			
			50,8	300	HT95185	12	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		<b>5/8</b>	<b>15,87</b>	2	50,8	200	HT95227
			63,5	300	HT95188	50,8				300	HT95790	
			63,5	400	HT95189	50,8				500	HT95791	
			3	63,5	500	HT95190			2 1/2	63,5	250	HT95228
		76,2		250	HT96148	63,5				300	HT95229	
		76,2		300	HT95191	63,5				400	HT95230	
		76,2		400	HT95192	63,5				500	HT95792	
		76,2		500	HT95193	63,5				750	HT96156	
		76,2		600	HT95194	76,2				300	HT95793	
		76,2		750	HT95784	3				76,2	400	HT95231
		3 1/2	88,9	300	HT96149				76,2	500	HT95232	
			88,9	350	HT95195				76,2	750	HT95794	
			88,9	500	HT95196		76,2	1000	HT95795			
			88,9	750	HT95197	101,6	400	HT95796				
		4	101,6	350	HT95198	4	101,6	500	HT95234			
			101,6	400	HT95199		101,6	600	HT95235			
			101,6	500	HT95200		101,6	750	HT95236			
			101,6	600	HT95201		101,6	1000	HT95237			
			101,6	800	HT95202		101,6	1250	HT95797			
			101,6	1000	HT95203		127,0	600	HT95238			
			127,0	350	HT96150		5	127,0	800	HT95239		
		127,0	400	HT95785	127,0	1000		HT95240				
		127,0	500	HT95204	127,0	1300		HT96157				
		127,0	600	HT95205	152,4	600		HT96158				
		5	127,0	750	HT95206	6	152,4	800	HT95241			
			127,0	1000	HT95208		152,4	1000	HT95242			
			152,4	400	HT96151		152,4	1250	HT96159			
			152,4	500	HT95786		152,4	1500	HT95243			
			152,4	600	HT95209		177,7	1000	HT95244			
			152,4	750	HT95210		7	177,7	1250	HT96160		
			152,4	1000	HT95212			177,7	1500	HT95245		
		7	177,7	500	HT95213							

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
---------	-------



**HT Spa** - Via Conegliano, 73/B - 31058 Susegana (TV) - Italy  
DOMESTIC SALES - Tel. +39 0438 454294 - vendite@htspa.it  
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