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## Product Marketing Bulletin

**Subject: A/C Product Code String**

**To: Residential Wholesale Distribution and Representatives**

### What's in a code string?

In the past an A/C unit was identified only by the model and configuration. For example:

**SM024-1VTN-FRT**

Units with the same model number can be very different from each other depending on the options that were included.

We have modified the code string to describe exactly the model, size and all of the options that may have been ordered with that unit. So, now the full model becomes:

**SM024-1VTN-FRTTTA-AHGAENHXX7XXXX8XXXXSSA**

Each digit in the code string refers to a specific characteristic or option on a unit.

In this way the code string is unique to the specific unit, unless identical units are ordered. The code string will be listed on the unit data plate so it is possible to identify what is in the unit without having to remove panels to physically identify what is installed.

We have structured the code string so that every position in the code string for different units refers to the same option. This makes it easier to recognize if a specific option is included.

In the attached we have identified the position and code for you to be able to interpret what is included in the unit. An example of a unit code string follows showing how this is applied.

If you have any questions, please contact your Regional Sales Manager for details



Lyndal Moore  
Residential National Sales Manager  
Bosch Thermotechnology Corp.

# CODE STRING INTERPRETER # 1

Option	Code String #	Code	Description
Unit Series	1 - 2	SM	Series
Unit nominal size	3 - 5	024	Nominal capacity
		036	
		042	
		..	
		070	
	6	-	Separator
Voltage	7	0	115/1/60 Voltage
		1	208-230/1/60 Voltage
		2	265/1/60 Voltage
		3	208-230/3/60 Voltage
		4	460/3/60 Voltage
Configuration	8-9	HZ	Horizontal
		VT	Vertical
		CF	Downflow
		UL	Unit Mounted Control, Left Water (Console Series)
		UR	Unit Mounted Control, Right Water (Console Series)
		RL	Remote Thermostat Control, Left Water (Console Series)
		RR	Remote Thermostat Control, Right Water (Console Series)
Coax Material	10	C	Copper
		N	Cu-Ni
	11	-	Separator
Water Connections	12	F	Front
		S	Side
Return Air	13	B	Back
		F	Front
		L	Left
		R	Right
Discharge Air	14	T	Top
		F	Front
		R	Rear
		S	Straight Through
		E	End Blow
		B	Bottom
Fan Motor	15	P	PSC Motor
		T	Const Torque ECM
		A	Const Air Flow ECM
		B	Belt Drive
Air Coil Material	16	U	Uncoated
		T	Tin Coated
		E	Epoxy Coated (Console Series)
Revision Level	17	A...	Revision level of the product
	18	-	Separator
Electric Heat	19	X	None
		A	5 kW
		C	10 kW
		D	15 kW
		E	20 kW

## CODE STRING INTERPRETER # 2

Cabinet	20	A	G90 Steel 1/2" 1.5LB Dual Density Fiberglass
		C	G90 Steel 1/2" Closed Cell Foam
		D	G90 1/2" 1.5LB Dual Density Fiberglass, Extra Quiet
		F	G90 Steel 1/2" Closed Cell Foam, Extra Quiet
		G	Prepainted Steel 1/2" Standard 1.5LB Dual Density Fiberglass
		H	Painted Steel 1/2" Closed Cell Foam
		N	No Insulation (Outdoor Application CS only)
Cabinet	20	R	Cabinet and Sub-base (Console Series)
		S	No Top Cabinet - Sub-base (Console Series)
		T	No Top Cabinet - No Sub-base (Console Series)
Application	21	S	Standard Boiler Tower
		G	Geo-Thermal
General Electrical Options	22-26	X	None
		A	EMS relay
		E	Pump/valve relay
		H	Flow proving switch
		J	Disconnect Switch
		N	Comfort Alert Diagnostic Module
		S	Start Assist
		T	Fault LED
		O	Outside Air Damper (Console Series)
Refrigerant Circuit Options	27	X	None
		H	Hot Gas Reheat, On/Off
		D	Heat Recovery Package
		S	Straight Cool
Transformer	28	4	40 VA
		5	50 VA
		7	75 VA
Controls	29	X	None
		M	Multi Protocol DDC (Modbus, BacNET, N2)
		L	Lonworks DDC
Water Flow Control	30	X	None
		2	2 Way Solenoid Valve
		F	1/2" FPT Fittings (Console Series)
Economizer	31	X	None
Open	32	X	None
Filtration	33	1	Standard 1" Throw Away Filter w/ 1" 2-Sided Filter Rack
		4	MERV8 - 2" w/ 4-Sided Filter Rack
		5	MERV13 - 2" w/ 4-Sided Filter Rack
		7	Cleanable Mesh Filter (Console Series)
Motor Sheave	34	X	None
Motor HP		A	1
		B	1.5
		C	2
		D	3
		E	5
Blower Pulley	35	X	None
Open	36	X	None
Open	37	X	None
38 Special	38-39	SS	Standard
		AA	Special
Code String Revision	40	A.	Revision level of the code string

- Note: 1) Not all options are available on every unit  
 2) Combinations of certain options may be restricted.  
 3) Options on some units may be standard on others

## CODE STRING EXAMPLE

1 - 2	3 - 5	6	7	8 - 9	10	11	12	13	14	15	16	17	18	19	20	21	22 - 26	27	28	29	30	31	32	33	34	35	36	37	38 - 39	40	
SM	024	-	1	VT	N	-	S	R	T	T	T	A	-	A	H	G	22	A	X	7	X	X	X	X	8	X	X	X	SS	A	
																	23	E													
																	24	N													
																	25	H													
																	26	X													

This code string translates into the following

1 - 2	SM	Series	SM
3 - 5	024	Nominal Capacity	24 MBTUH
6	-		-
7	1	Voltage	-1 (208-230/1/60)
8 - 9	VT	Cabinet	VT - Vertical
10	N	Water Coil	N - CuNi
11	-		-
12	F	Water Connections	S - Side
13	R	Return Air	R - Right
14	T	Discharge Air	T - Top
15	T	Fan Motor	T - Constant Torque
16	T	Air Coil Coating	T - Tin Plated
17	A	Revision Level	A
18	-		-
19	A	Electric Heat	A - 5 Kw
20	C	Cabinet Insulation	H - Painted Steel 1/2" Closed Cell Foam
21	G	Application	G - Geothermal
22	A	Electrical Options	A - EMS relay
23	E		E - Pump/valve relay
24	N		N - Comfort Alert
25	H		H - Flow proving switch
26	X		X - None
27	X	Refrigerant Option	X - None
28	7	Transformer	7 - 75 VA
29	X	DDC Controller	X - None
30	X	Water Flow Control	X - None
31	X	Economizer	X - None
32	X		x - Open
33	8	Air Filtration	8 - MERV11 - 2" w/ 4-Sided Filter Rack
34	X	Motor	X - Not applicable
35	X	Blower Pulley	X - Not applicable
36	X	Open	X - Not applicable
37	X	Open	X - Not applicable
38 - 39	SS	Special	SS - Standard unit
40	A	Revision	A - Initial copy