

Optional

SCROLL NOMENCLATURE (INCLUDING REFGN)

Modulation

Alpha character preceding capacity when applicable

D - Digital	Y - Even Trio
H - Horizontal	M - Uneven Trio
G - Two Stage International	DY - Digital/Fixed Even Trio
I - Fixed Speed EVI	DM - Digital/Fixed Uneven Trio
J - Digital EVI	SY - Two Stage/Fixed Even Trio
S - Two Stage	SM - Two Stage/Fixed Uneven Trio
T - Even Tandem	
U - Uneven Tandem	
DD - Digital/Digital Even Tandem	
DT - Digital/Fixed Even Tandem	
DU - Digital/Fixed Uneven Tandem	
SS - Two Stage/Two Stage Even Tandem	
SR - Two Stage/Two Stage Uneven Tandem	
ST - Two Stage/Fixed Even Tandem	
SU - Two Stage/Fixed Uneven Tandem	

Optional

A - PAO Oil
B - POE R134A Ref Products
E - POE Oil - AK/DA, 3MA or 4MA, R32
G - PAG Oil
P - POE R410A Ref Products
U - POE R290
L - Shipped Less Oil (ZB, ZF, ZS only)
R - POE R513A Transportation Products

Nominal Capacity at Rating Condition

2 - 3 numeric characters

Motor Protection

Type	Code
Internal Inherent Protection	- F
External Electronic Protection	- W
External Enhanced	- E
No Internal Protection or TW*+TF*	- X
Tandem/Trio TE*+TW*	- Y
Tandem/Trio TE*+TF*	- Z
Scalable Base	- N
Scalable Smart	- S

Bill of Material Product Variation

Z R D U 1 2 M C E - T F D - 2 5 0

Family Series

Z - Scroll
V - Asia Scroll
X - V Scroll w/other
Agency Approval

Capacity Multiplier

K - 1,000
M, P, R* - 10,000
C - SCFM
*Additional characters for 10,000 BTUs

Model Variation

1
2
3
4
5
6
A
B
C
D
E
F
H
I
L
M
P
Q
R
S
T
U
V
W
Z

Motor Descriptions

Phase	Code
1	P
3	T
BPM	B
3 PWS 50/50	F
3 Encapsulated	
Stator	K
Multiple Speed	M
6 Lead Across	
The Line	D
Unlike Motor Protection	X

Typical Electrical Codes

60 Hz.	50 Hz.	Code
115-1	----	A
230-1	----	B
208-230-3	200-3	C
460-3	380-420-3	D
575-3	----	E
265-1	220-240-1	J
----	380-420-3	M
----	380-3	P
265-1	----	Q
	220-240-3	R
	220-1	S
208-230-1	200-1*	V
----	200-220-3	W
Misc AC Voltages		X
----	220-240-1	Z
200-230-3	200-220-3	5
380-3/380-400-3	----	7
----	415-3	0
220-1	220-1	3
440-1		4

*Model Specific

Application Range/Envelope

Code	Application	Refgn/Substance Compressed
P	AC	R410A/B
R	AC	R22/407C/134A/R450A/R513A
B	Ref MT / HT	R22/R404A, 410A/407A/407C/407F/448A/449A
F	Ref LT / MT	R404A/134A/22/407A/407C/407F/448A/449A
S	Ref EM	R404A/134A/410A
C	Cryogenic	Helium
M	Marine	R404A
N	Gas Boost	Natural Gas
X	Asia Cond Unit	R22
T	Mobile Scroll	R134A
H	Heat Pump Optimized	R407C/134A/R410A
O	Ref Subcritical LT	R744
I	Ice Market	R404A/448A/449A
E	AC	R32
J	Tropical	R410A



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General Spec

VARIABLE SPEED COMPRESSOR NOMENCLATURE

Modulation

V – Variable Speed
 W – Variable Speed EVI
Optional 2nd Position
 VT – Even Tandem (Variable & Fixed Speed Even)
 VU – Uneven Tandem (Variable & Fixed Speed Uneven)
 VY – Trio (Internal Reference Only)
 VV – Variable Speed & Variable Speed
 VH – Variable Speed Horizontal

Model Variation

1
 2
 A
 B
 C
 D
 S
 L

Misc. Protection

Type	Code
Enhanced External Protection	E
No Protection	X

Family Series

Z – Scroll
 V – Asia Scroll
 X – V Scroll w/other Agency Approval
 J- High Side Scroll

Cubic Centimeters Per Revolution

3 numeric characters

Optional

E – POE Oil
 P – POE R410A
 U – POE R290
 C - PVE

Typical Electrical Codes

Code
Misc DC voltage 9

Z P V T 0 3 8 1 E - 1 E 9 - X X X

1st Generation VS Only (K1)

<u>Nominal Capacity at Rating Condition</u>	<u>Capacity Multiplier</u>
2-3 numeric characters	K-1,000

Motor Types

Code
1
2
3
4
5
7
9

Bill of Material Product Variation

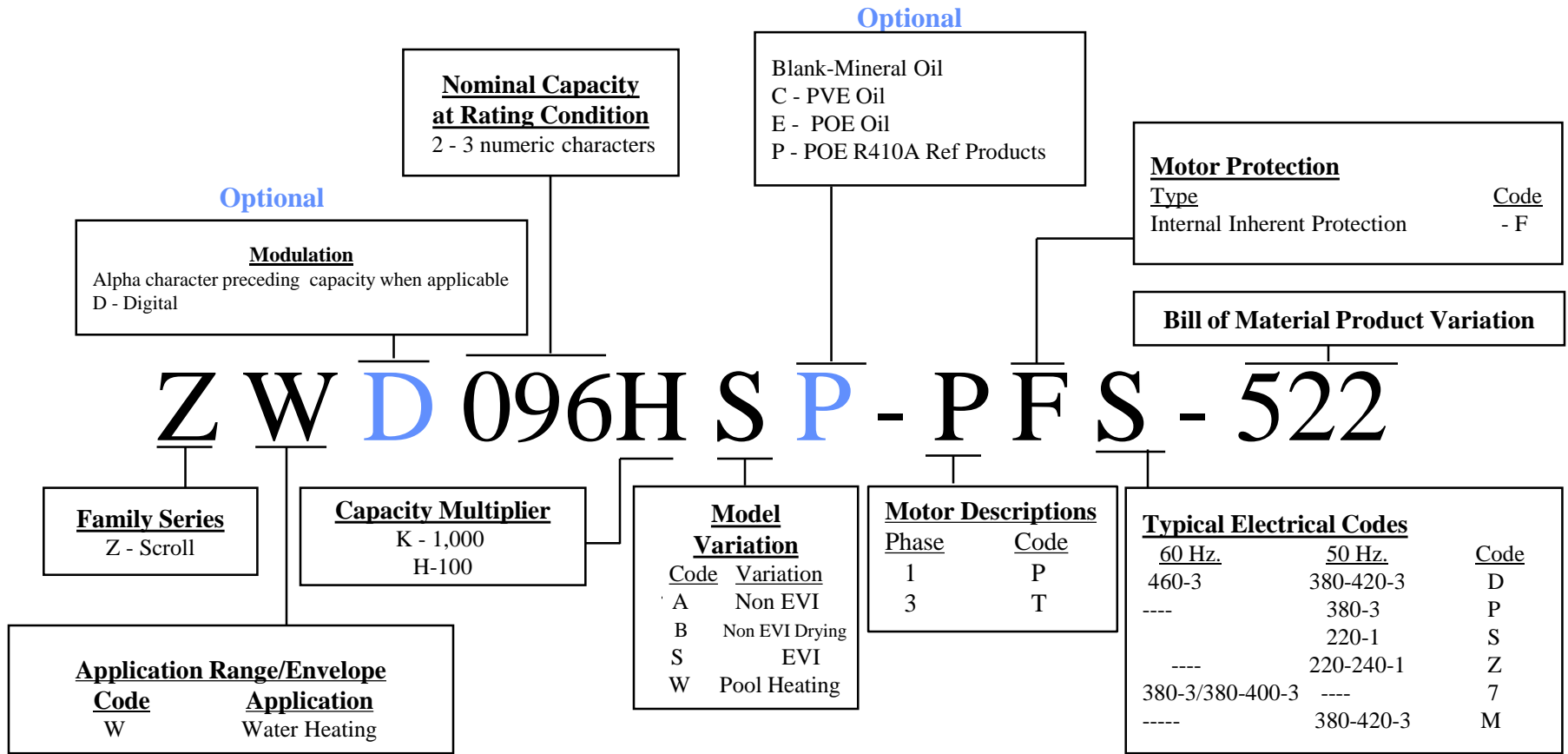
Application Range

Code	Application	Refgn/Substance Compressed
P	AC/HP	R410A/B
H	Heat Pump Optimized	R410A, R290
B	Ref MT/HT	R290, R404A, R448A, R449A, R407A, R407C
S	Ref EM	R448A
F	Ref LT/MT	R404A
W	Water Heating Optimized	R410A
R	AC	R134A, R407C



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 General Spec

ASIA WATER HEATING SCROLL NOMENCLATURE



Optional

A2L/A3 SCROLL NOMENCLATURE (INCL REF)

Optional

Modulation

Alpha character preceding capacity when applicable

- D - Digital
- H - Horizontal
- I - Fixed Speed Vapor Injection
- J - Digital Vapor Injection
- S - Two Stage
- T - Even Tandem
- U - Uneven Tandem
- DD - Digital/Digital Even Tandem
- DT - Digital/Fixed Even Tandem
- DU - Digital/Fixed Uneven Tandem
- Y - Trio (Internal Reference Only)

Nominal Capacity at Rating

2-3 numeric characters
 K=1,000
 M=10,000
 C=SCFM
 Capacity Reference depends on application (R32 for P, R454C for other models)*

- E - POE Oil - 3MAF
- P - POE Oil 3MAF High Pressure
- U - POE R290
- V - POE Oil for A2L (Medium Pressure/REF)
- T - VG46 POE 4MA

Motor Protection

Type	Code
Internal Inherent Protection	- F
External Electronic Protection	- W
External Enhanced	- E
Tandem/Trio TE*+TW*	- Y
Tandem/Trio TE*+TF*	- Z
Scalable Base	- N
Scalable Smart	- S

Bill of Material Product Variation Alpha Characters only

Y P D U 123K Z T - T N D - AAA

Family Series

- Y - Scroll A2L/A3
- L - China Scroll A2L/A3

Model Variation

- 1
- Z
- A

Motor Descriptions

Phase	Code
1	P
3	T
BPM	B
3 PWS 50/50	F
3 Encapsulated	
Stator	K
Multiple Speed	M
6 Lead Across	
The Line	D
Unlike Motor	
Protection	X

Typical Electrical Codes

60 Hz.	50 Hz.	Code
460-3	380-420-3	D
575-3	----	E
----	380-420-3	M
208-230-1	200-1*	V
200-230-3	200-220-3	5
380-3/380-400-3	----	7

*Model Specific

Application Range/Envelope

Code	Application	Refgn/Substance Compressed
A	AC (High Pressure)	R454B/R452B
P	AC (High Pressure)	R32
R	AC (Med Pressure)	R454C, R455A, R454A, R1234YF
B	Ref MT / HT	R454C, R455A, R454A, R1234YF / R290
F	Ref LT / MT	R454C, R455A, R454A / R290
H	Heat Pump Optimized	R452B, R454B, R454C, R455A / R290
S	MT Extended	R454C, R455A, R454A, R1234YF / R290

*Capacity reference (A2L's):

- YA: 45/130F @60Hz with R454B in Btu/h
- YB & YS: 20/120F @60Hz with R454C in Btu/h
- YF: -25/105F @60Hz with R454C in Btu/h
- YH(I): -6.7/50°C @50Hz with R454C or R452B in kW
- YR: 45/130F @60Hz with R454C in Btu/h
- YP: 45/130F @60Hz with R32 in Btu/h



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 General Spec

A2L/A3 VARIABLE SPEED COMPRESSOR NOMENCLATURE

Modulation

V – Variable Speed
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Optional 2nd Position
 VT – Even Tandem (Variable & Fixed Speed Even)
 VU – Uneven Tandem (Variable & Fixed Speed Uneven)
 VY – Trio (Internal Reference Only)
 VV – Variable Speed & Variable Speed
 VH – Variable Speed Horizontal

Model

Variation

1
L
S

Misc. Protection

Type	Code
Enhanced External Protection	E
No Protection	X

Optional

E – POE Oil
 P – POE R410A
 U – POE R290
 T – POE VG46 R32
 (V – POE A2L)

Typical Electrical Codes

Misc DC voltage	Code
	9

Family Series

Y – Scroll A2L/A3
 L – China Scroll A2L/A3

Cubic Centimeters Per Revolution

3 numeric characters

Y P V T 0 3 8 1 V – 1 E 9 – AAA

Application Range

Code	Application	Refgn/Substance Compressed
A	AC/HP	R454B/R452B
P	AC/HP	R32
H	Heat Pump Optimized	R452B, R454B / R290
B	Ref MT/HT	R454C, R455A, R454A, R1234yf / R290
F	Ref LT/MT	R454C, R455A, R454A / R290

Motor Types

Code
1
2
3
4
5
7
9

**Bill of Material
 Product Variation
 Alpha
 Characters only**

