SCROLL NOMENCLATURE(INCLUDING REFGN)

Optional

Modulation

Alpha character preceding capacity when applicable

D - Digital
H – Horizontal
G – Two Stage International
I - Fixed Speed EVI
J - Digital EVI
S - Two Stage
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
Y – Even Trio
M – Uneven Trio
DY – Digital/Fixed Even Trio
DM – Digital/Fixed Uneven Trio
SY – Two Stage/Fixed Even Trio
SM – Two Stage/Fixed Uneven Trio

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
W – POE 3MA for R290

Nominal Capacity at Rating Condition

2 - 3 numeric characters

Motor Protection

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

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, L - 1,000
M, P, R*- 10,000
C – SCFM
*Additional characters for 10,000 BTus

Application Range/Envelope

Code	Application	Refrigerant/Substance Compressed
P	AC	R410A/B
R	AC	R134a,22,407C,450A,513A
B	Ref MT / HT	R134a,22,290,404A,407A/C/F,410A,448A,449A,507,513A
F	Ref LT / MT	R134a,22,404A,407A/C/F,410A,448A,449A,452A,507
S	Ref EM	R134a,22,404A,407A/C/F,410A,448A,449A,452A,507,513A
C	Cryogenic	Helium
M	Marine	R134a/404A /513A
N	Gas Boost	Natural Gas
X	Asia Cond Unit	R134a,22,404A,407A/C/F,448A,449A,507
T	Mobile Scroll	R134a
H	Heat Pump Optimized	R134a,407C,410A
O	Ref Subcritical LT	R744
I	Ice Market	R404A,448A,449A
E	AC	R32
J	Tropical	R410A
D	Data Center	R410A

Model Variation

1 2 3 4 5 6 7 A B C D E F H I L M N 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 6 Lead Across The Line	M
Unlike Motor Protection	D
	X

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ES91-148
September 15, 2022
ESC101565.000

General Spec

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

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 Even Tandem
VH – Variable Speed Horizontal
WT – Even Tandem (Variable EVI & Fixed Speed Even)
WU – Uneven Tandem (Variable EVI & Fixed Speed Uneven)

Model Variation
1
2
A
B
C
D
H
L
Q
S
T

Motor Types

Code
1
2
3
4
5
7
9

Misc. Protection

Type	Code
Enhanced External Protection	E
No Motor Protection	X
Mixed Voltage	M

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)

Nominal Capacity at Rating Condition	Capacity Multiplier
2-3 numeric characters	K-1,000

Tandem Motor Description

VS	Fixed	Code
2*9	T*D	2MD
3*9	T*7	3M7
4*9	T*5	4M5
4*9	T*7	4M7
4*9	T*D	4MD
5*9	T*E	5ME
5*9	T*5	5M5
7*9	T*D	7MD
7*9	T*E	7ME

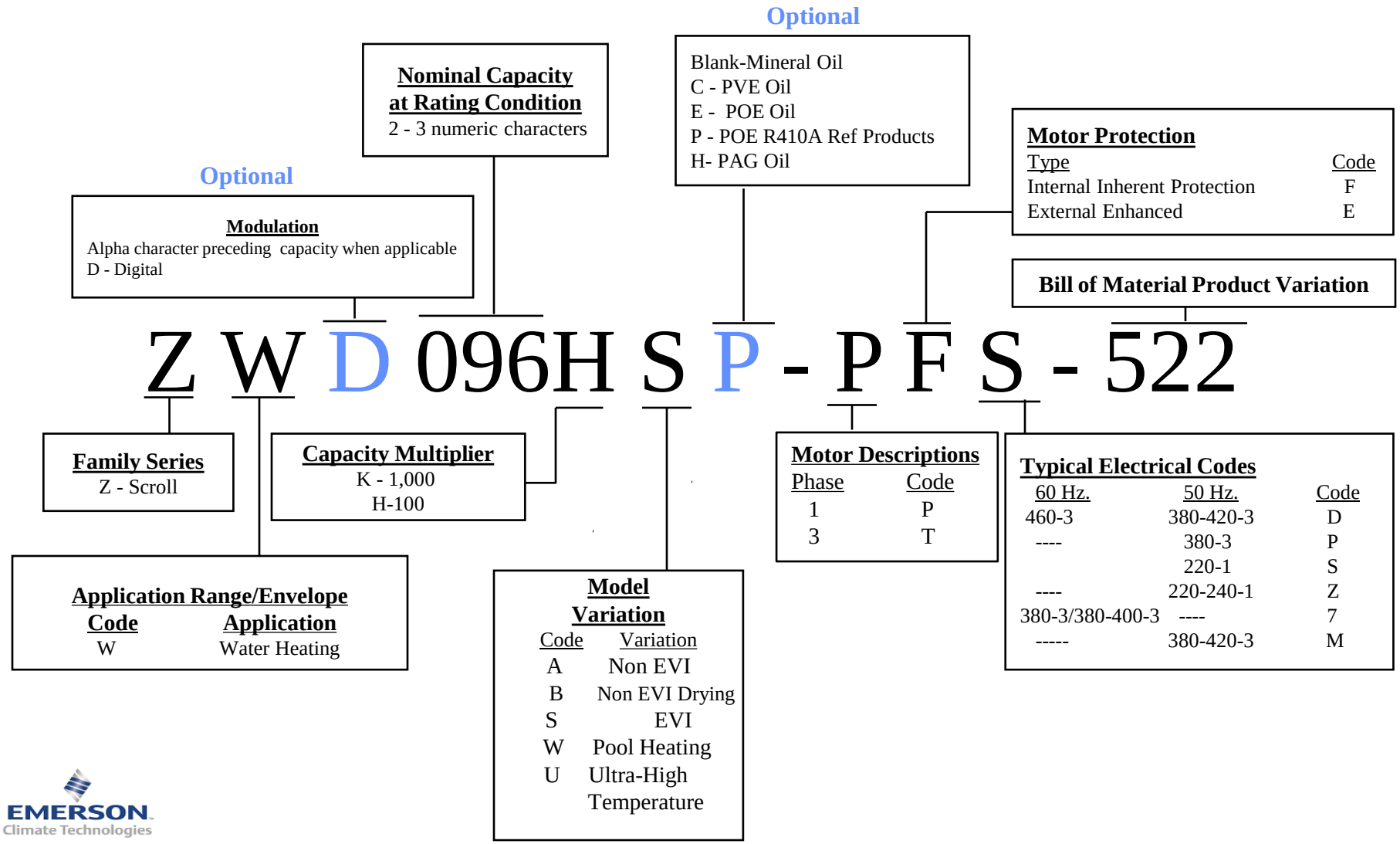
Bill of Material Product Variation

Application Range

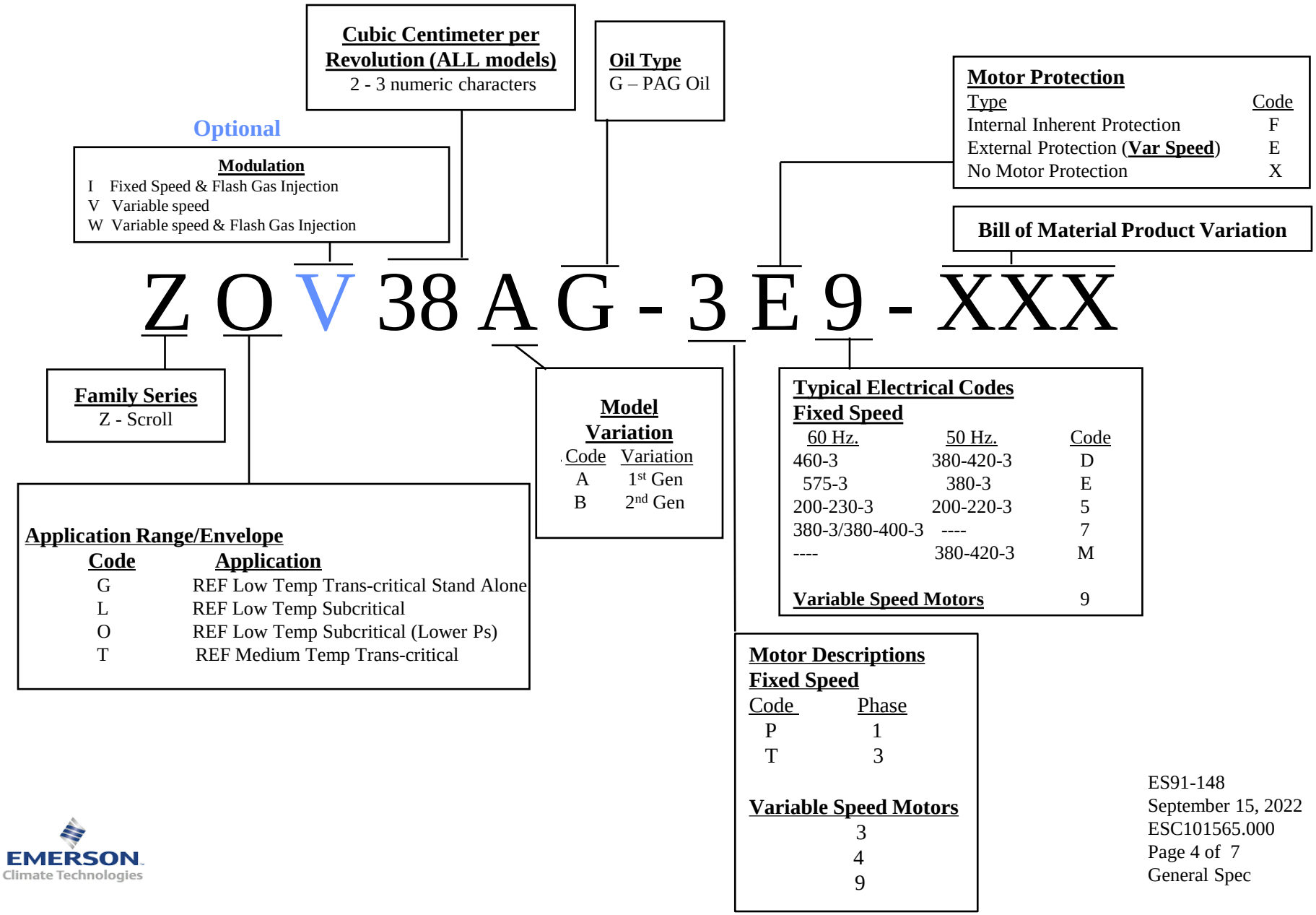
Code	Application	Refgn/Substance Compressed
P	AC/HP	R410A/B
H	Heat Pump Optimized	R410A, R290
B	Ref MT/HT	R290, R404A, R448A, R449A, R407A, R407C
S	Ref EM	R448A
F	Ref LT/MT	R404A,R448A,R449A, R452A
W	Water Heating Optimized	R410A
R	AC	R134A, R407C
X	Asia Cond Unit MT/HT	R404A, R448A, R449A
K	Asia Cond Unit LT/MT	R404A, R448A, R449A
D	Data Center	R410A

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ASIA WATER HEATING SCROLL NOMENCLATURE



CO2 NEXT GEN SCROLL NOMENCLATURE



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 – Even Trio
M – Uneven Trio
Q – Even Quattro
C – Uneven Quattro

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)*

Optional

E - POE Oil – 3MAF
G – PAG Oil
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
Mixed Voltage	M

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

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
M	Marine	R1234YF
D	Data Center	R32

Model Variation

1
A
C
N
S
T
Z

Motor Descriptions

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

Typical Electrical Codes

60 Hz.	50 Hz.	Code
460-3	380-420-3	D
575-3	----	E
265-1	220-240-1	J
----	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

*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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A2L/A3 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
WT – Even Tandem (Variable EVI & Fixed Speed Even)
WU – Uneven Tandem (Variable EVI & Fixed Speed Uneven)

Model Variation
1
A
B
C
D
H
L
R
S

Misc. Protection

Type	Code
Enhanced External Protection	E
No Motor Protection	X
Mixed Voltage	M

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

Cubic Centimeters Per Revolution
3 numeric characters

Optional
E – POE Oil
G – PAG Oil
P – POE 3MA (High Pressure)
U – POE R290
T – POE VG46

Typical Electrical Codes

	Code
Misc DC voltage	9

Y P V T 0 3 8 1 T – 1 E 9 – A A A

Application Range

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

Motor Types
Code
1
2
3
4
5
7
9

Bill of Material Product Variation Alpha Characters only

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A2L/A3 ASIA WATER HEATING SCROLL NOMENCLATURE

