

Edl, Michele

From: Pfeiffer, Earl [EARL.PFEIFFER@TRANE.COM]
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Thank you!

Earl Pfeiffer

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Parts List Number :CVHFUP4

Model Number :CVHF049FA2D0AC32556PAE6NDG0000000EA1G0000000002C1

Model Number Description

75006470



Centravac Chillers

Digits 1 thru 19

Model Number Example

CVHF049FA1R0ACN2557A2A7B2A0000003G0000000000003AOW1B

Digit 1-3 Unit Type

CVH=Centravac Direct Drive

Digit 4 Development Sequence

F=2 Stage Chiller

E,G=3 Stage Chiller

Digit 5-7 Nominal Tonnage

CVHE

D19=190 Tons 032=320 Tons

021=210 Tons 033=330 Tons

023=230 Tons 036=360 Tons

024=240 Tons 037=370 Tons

025=250 Tons 040=400 Tons

027=270 Tons 042=420 Tons

028=280 Tons 045=450 Tons

030=300 Tons 050=500 Tons

CVHF

035=350 Tons 091=910 Tons

041=410 Tons 106=1060 Tons

049=485 Tons 108=1070 Tons

055=555 Tons 128=1280 Tons

058=570 Tons 130=1300 Tons

064=640 Tons 147=1470 Tons

065=650 Tons 172=1720 Tons

077=770 Tons

CVHC

048=480 Tons 078=780 Tons

057=565 Tons 092=920 Tons

067=670 Tons 107=1067 Tons

110=1100 Tons

Digit 8 Unit Voltage

B=208V-60HZ P=3300V-60HZ

D=380V-60HZ R=380V-50HZ

E=440V-60HZ S=Special

F=460V-60HZ T=400V-50HZ

G=480V-60HZ U=415V-50HZ

H=575V-60HZ V=3300V-50HZ

J=600V-60HZ W=5000V-50HZ

K=2300V-60HZ X=5600V-60HZ

L=2400V-60HZ Z=6600V-50HZ

N=4160V-60HZ 1=10,000V-50HZ

2=11,000V-50HZ 3=13,200V-60HZ

4=13,800V-60HZ 5=12,000V-60HZ

Digit 9 Unit Type

A=Cooling Condenser

B=Heat Recovery Condenser

C=Aux Condenser

D=Free Cooling Option

E=Cooling Condenser/Separable Shells

S=Special

Digit 10-11 Design Sequence

Digit 12 Hot Gas Bypass

W=With 0=Without S=Special

Digit 13 Starter Type

A=Star Delta Unit Mount

C=Star Delta Remote

E=X-Line Full Volt Remote

F=Autotransformer Remote

G=Primary Reactor Remote

H=X-Line Full Volt Unit Mount

J=Autotransformer Unit Mount

K=Primary Reactor Unit Mount

L=Solid State Unit Mount

M=Solid State Floor Mount

N=Solid State Wall Mount

P=Adaptive Freq Drive Unit Mount

W=High Fault (Remote wye delta)

X=Industrial High Fault (remote solid state)

R=Customer Supplied

Y=Non-communicating AFD-remote

Z=Medium Volt AFD

Digit 14 Control Enclosure

C=Standard

D=Industrial Control Panel

S=Special

Digit 15 Compressor Motor Power (CPKW)

1=1062 & 892 N=323 & 270

2=1228 P=361 & 301

3=231 R=403 & 337

E=142 & 143 S=Special

F=154 & 156 T=453 & 379

G=171 & 170 U=512 & 433

H=187 V=588 & 489

J=193 & 1340 W=653 & 548

K=204 X=745 & 621

L=257 & 215 Y=856 & 716

M=287 & 242 Z=957 & 799

Digit 16-18 Compressor Impeller Cutback

210-340=Impeller Cutback Value

S=Special

Digit 19 Evaporator Shell Size

3=032S Short A=142E Extended

4=032L Long B=142M Medium

5=050S Short C=142L Long

6=050L Long E=210L Long

7=080S Short F=250E Extended

8=080L Long S=Special

Parts List Number :CVHFUP4

Model Number :CVHF049FA2D0AC32556PAE6NDG0000000EA1G0000000002C1

Model Number Description

75006471

REV
J

Centravac Chillers

Digits 20 thru 27

Digit 20 Evaporator Tube Bundle
(Nominal Tons)

A=890	M=360	1=2280
B=980	N=400	2=2480
C=1080	P=450	3=390
D=1220	Q=500	4=480
E=200 or 1420	R=550	5=580
F=220 or 1610	T=560	6=700
G=230 or 1760	U=630	7=860
H=250 or 1900	V=710	S=Special
J=280 or 2100	W=800	
K=320	Y=2300	
L=350	Z=2500	

Digit 21 Evaporator Tubes

1=.028 Wall 1.0 Dia IE, IECU
 2=.028 Wall .75 Dia Smooth Bore, SBCU
 3=.035 Wall .75 Dia Smooth Bore, SBCU
 4=.035 Wall .75 Dia 90/10 Cu/Ni, SB91
 5=.035 Wall 1.0 Dia IE, IECU
 7=.028 Wall .75 Dia IE, TECU
 8=.035 Wall .75 Dia IE, TECU
 9=.025 Wall .75 Dia IE, TECU
 A=.025 Wall 1.0 Dia IE, IECU
 B=.025 Wall 1.0 Dia Micro IE, IMCU
 F=.028 Wall 1.0 Dia Micro IE, IMCU
 H=.025 Wall 1.0 Dia Micro IE, GEWA
 J=.028 Wall 1.0 Dia Micro IE, GEWA
 S=Special

Digit 22 Evaporator Waterbox

1=300 PSI Non-Marine 3 pass ASME
 A=150 PSI Marine 1 pass STD
 B=150 PSI Marine 2 pass STD
 C=150 PSI Marine 3 pass STD
 D=150 PSI Non-Marine 1 pass STD
 E=150 PSI Non-Marine 2 pass STD
 F=150 PSI Non-Marine 3 pass STD
 G=300 PSI Marine 1 pass STD
 H=300 PSI Marine 2 pass STD
 J=300 PSI Marine 3 pass STD
 K=300 PSI Non-Marine 1 pass STD
 L=300 PSI Non-Marine 2 pass STD
 M=300 PSI Non-Marine 3 pass STD
 N=150 PSI Marine 1 pass ASME
 P=150 PSI Marine 2 pass ASME
 Q=150 PSI Marine 3 pass ASME
 R=150 PSI Non-Marine 1 pass ASME
 S=Special
 T=150 PSI Non-Marine 2 pass ASME
 U=150 PSI Non-Marine 3 pass ASME
 V=300 PSI Marine 1 pass ASME
 W=300 PSI Marine 2 pass ASME
 X=300 PSI Marine 3 pass ASME
 Y=300 PSI Non-Marine 1 pass ASME
 Z=300 PSI Non-Marine 2 pass ASME

Digit 23 Condenser Shell Size

3=032S Short	8=080L Long
4=032L Long	C=142L Long
5=050S Short	E=210L Long
6=050L Long	F=250L Long
7=080S Short	S=Special

Digit 24 Condenser Tube Bundle
(Nominal Tons)

A=890	L=400
B=980	M=450
C=1080	N=500
D=1220	P=560
E=1420	Q=630
F=230 or 1610	R=710
G=250 or 1760	S=Special
H=280 or 1900	T=800
J=320 or 2100	Y=2300
K=360	Z=2500

Digit 25 Condenser Tubes

1=.028 Wall 1.0 Dia IE, IECU
 2=.028 Wall .75 Dia Smooth Bore, SBCU
 3=.035 Wall .75 Dia Smooth Bore, SBCU
 6=.035 Wall .75 Dia 90/10 Cu/Ni, SB91
 9=.035 Wall 1.0 Dia IE, IECU
 8=.028 Wall .75 Dia IE, TECU
 C=.035 Wall .75 Dia IE, TECU
 D=.035 Wall .75 Dia 90/10 CU/Ni IE, TL91
 E=.035 Wall .75 Dia IE Low Fouling, TLCU
 F=.028 Wall 1.0 Dia Micro IE, IMCU
 G=.028 Wall .75 Dia IE Low Fouling, TLCU
 S=Special

Digit 26 Condenser Waterbox

A=150 PSI Marine 2 pass STD
 C=150 PSI Non-Marine 2 pass STD
 E=300 PSI Marine 2 pass STD
 G=300 PSI Non-Marine 2 pass STD
 H=150 PSI Marine 1 pass STD
 J=150 PSI Non-Marine 1 pass STD
 K=300 PSI Marine 1 pass STD
 L=300 PSI Non-Marine 1 pass STD
 S=Special

Digit 27 Heat Recovery

Condenser Shell Size

0=None	7=080S Short
3=032S Short	8=080L Long
4=032L Long	C=142L Long
5=050S Short	E=210L Long
6=050L Long	F=250L Long
S=Special	

Model Number Description

75006473

REV
K

Centravac Chillers

Digits 34 thru 53

Digit 34 Orifice Size

0=None

1=1735 with 2 stg cmpr/1000 with 3 stg cmpr
 2=1890 with 2 stg cmpr/1120 with 3 stg cmpr
 3=2060 with 2 stg cmpr/1250 with 3 stg cmpr
 4=1400 with 2 or 3 stg cmpr
 5=1600 with 3 stg cmpr 6=1800 with 3 stg cmpr
 7=835 with 2 stg cmpr 8=935 with 2 stg cmpr
 9=1045 with 2 stg cmpr A=375 with 2 stg cmpr
 B=415 with 2 stg cmpr C=460 with 2 stg cmpr
 D=510 with 2 stg cmpr E=585 with 2 stg cmpr
 F=650 with 2 stg cmpr
 G=710 with 2 or 3 stg cmpr
 H=790 with 2 stg cmpr/180 with 3 stg cmpr
 J=880 with 2 stg cmpr/200 with 3 stg cmpr
 K=990 with 2 stg cmpr/230 with 3 stg cmpr
 L=1100 with 2 stg cmpr/250 with 3 stg cmpr
 M=1265 with 2 stg cmpr/280 with 3 stg cmpr
 N=750 with 2 stg cmpr/320 with 3 stg cmpr
 P=1540 with 2 stg cmpr/360 with 3 stg cmpr
 Q=1605 with 2 stg cmpr/400 with 3 stg cmpr
 R=1660 with 2 stg cmpr/450 with 3 stg cmpr
 S=Special
 T=1810 with 2 stg cmpr/500 with 3 stg cmpr
 U=1970 with 2 stg cmpr/560 with 3 stg cmpr
 V=2150 with 2 stg cmpr/630 with 3 stg cmpr
 W=1185 with 2 stg cmpr
 Y=1335 with 2 stg cmpr/800 with 3 stg cmpr
 Z=1475 with 2 stg cmpr/900 with 3 stg cmpr

Digit 35 Unit Option-Insulation & RuptureGuard

0=None

A=Insulation Package Only
 B=Insulation Package & 3" RuptureGuard
 C=Insulation Package & 4" RuptureGuard
 D=3" RuptureGuard Only
 E=4" RuptureGuard Only

Digit 36 Enhanced Protection

0=None

1=Enhanced Protection

Digit 37 Generic BAS

0=None

G=Generic BAS

Digit 38 Extended Operation

0=None

1=Extended Operation

Digit 39 Tracer Communication

4=Tracer Summit Com 4

5=Tracer Com 5

6=Tracer MODBUS

7=Tracer BACnet 0=None

Digit 40 Condenser Refrigerant Control

0=None

C=Condenser Control

Digit 41 Manufacturing Location

L=LaCrosse, Wis

T=TaiCang, China

Digit 42 Special Options

0=None

S=Special Option

Digit 43 Water Flow Control

0=None

W=Water Flow Control

Digit 44 Chilled Water Reset

0=None

1=Chilled Water Reset

Digit 45 Heat Recovery Temperature

Sensors

0=None

A=Sensors

Digit 46 Gas Powered Chiller

0=No

1=Yes

Digit 47 Compressor Motor Frame Size

1=360

5=5800

2=400

6=5800L

3=440E Reliance

7=6200

4=5000

8=6200L

C=440E Ram

S=Special

D=5000 Ram

Digit 48 Valve Discharge Angle

A=D153

B=D158

C=D173

D=D180

S=Special

Digit 49 Operating Status

0=None

1=Operating Status

Digit 50 Industrial Chiller Package

0=Without

W=With

Digit 51 Control Power Transformer

0=Without CPTR

1=With CPTR

S=Special

Digit 52 Motor and Terminal Board Config

A=Six lead low Voltage

B=Three lead medium Voltage

C=Six lead medium Voltage

D=Three lead low Voltage

S=Special

Digit 53 Thermal Dispersion Water Flow

0=None

A=Cond and Evap

B=Cond only

C=Evap only

BAS
 Building
 Automation
 System

Model Number Description

75006472

REV
G

Centravac Chillers

Digits 28 thru 33

Digit 28 Heat Recovery Condenser
Tube Bundle (Nominal Tons)

0=None L=400
 A=890 M=450
 B=980 N=500
 C=1080 P=560
 D=1220 Q=630
 E=1420 R=710
 F=230 or 1610 S=Special
 G=250 or 1760 T=800
 H=280 or 1900 Y=2300
 J=320 or 2100 Z=2500
 K=360

Digit 29 Heat Recovery Tubes

0=None
 1=.028 Wall 1.0 Dia IE, IECU
 2=.028 Wall .75 Dia Smooth Bore, SBCU
 3=.035 Wall .75 Dia Smooth Bore, SBCU
 6=.035 Wall .75 Dia 90/10 Cu/Ni, SB91
 9=.035 Wall 1.0 Dia IE, IECU
 B=.028 Wall .75 Dia IE, TECU
 C=.035 Wall .75 Dia IE, TECU
 D=.035 Wall .75 Dia 90/10 Cu/Ni
 Internally Enhanced, TL91
 E=.035 Wall .75 Dia Internally
 Enhanced Low Fouling, TLCU
 G=.028 Wall .75 Dia Internally
 Enhanced Low Fouling, TLCU
 H=.028 Wall 1.0 Dia IE, IMCU
 S=Special

Digit 30 Heat Recovery Condenser Waterbox

0=None
 A=150 PSI Marine 2 pass STD
 C=150 PSI Non-Marine 2 pass STD
 E=300 PSI Marine 2 pass STD
 G=300 PSI Non-Marine 2 pass STD
 S=Special

Digit 31 Auxiliary Condenser Size
and Waterboxes

0=None
 A=80 Tons 150 PSI Marine 2 Pass STD
 B=80 Tons 150 PSI Non-marine 2 Pass STD
 C=80 Tons 300 PSI Marine 2 Pass STD
 D=80 Tons 300 PSI Non-Marine 2 Pass STD
 E=130 Tons 150 PSI Marine 2 Pass STD
 F=130 Tons 150 PSI Non-Marine 2 Pass STD
 G=130 Tons 300 PSI Marine 2 Pass STD
 H=130 Tons 300 Non-Marine 2 Pass STD
 S=Special

Digit 32 Auxiliary Condenser Tubes

0=None
 1=.028 Wall 1.0 Dia IE, IECU
 2=.028 Wall .75 Dia Smooth Bore, SBCU
 3=.035 Wall .75 Dia Smooth Bore, SBCU
 6=.035 Wall .75 Dia 90/10 Cu/Ni, SB91
 9=.035 Wall 1.0 Dia IE, IECU
 B=.028 Wall .75 Dia IE, TECU
 C=.035 Wall .75 Dia IE, TECU
 D=.035 Wall .75 Dia 90/10 Cu/Ni
 Internally Enhanced, TL91
 E=.035 Wall .75 Dia Internally
 Enhanced Low Fouling, TLCU
 G=.028 Wall .75 Dia Internally
 Enhanced Low Fouling, TLCU
 H=.028 Wall 1.0 Dia IE, IMCU
 S=Special

Digit 33 Orifice Size

0=None
 1=210 with 2 stage compressor
 2=240 with 2 stage compressor
 3=265 with 2 stage compressor
 4=300 with 2 stage compressor
 5=340 with 2 stage compressor
 6=2245 with 2 stage compressor
 545 with 3 stage compressor
 7=2345 with 2 stage compressor
 620 with 3 stage compressor
 8=2450 with 2 stage compressor
 680 with 3 stage compressor
 9=2550 with 2 stage compressor
 A=2675 with 2 stage compressor
 B=2795 with 2 stage compressor
 S=Special