

816 Units, Vertical Stack Units

Vertical stack units are normally found in high rise buildings, especially condo's and to a lesser extent, hotels.

The vertical stack units are made in two major pieces: the chassis and the cabinet. The chassis contains all or the water/refrigerant systems including the air coil. The cabinet is the sheet metal box that is installed behind walls and contains the fan, sometime the control board, power and thermostat connections. The chassis is often replaced without renewing anything in the cabinet (usually the newer units). Most of the old units require a chassis and a "fan kit" which consists of a new blower, including housing and motor, all internal wiring to the chassis and power, and normally contains the unit control board.

We Made the 816 For nearly 20 years, up until the 2010 switch to R-410A refrigerant.

The 816 was an evolving unit that had significant changes over the years. Rather than issue a new model number, Revisions were issued. This makes replacement conversions very complicated. This file contains revisions A – S, skipping some letters.

Climatemaster always recommends that that the commercial Rep or CSR use the online model decoder on the opening page of **the Business Center called "Chassis Converter"**. If the program returns the value "contact customer service" then contact an application engineer.

Some may wish to find the replacement on their own so we offer multiple revisions in this file.

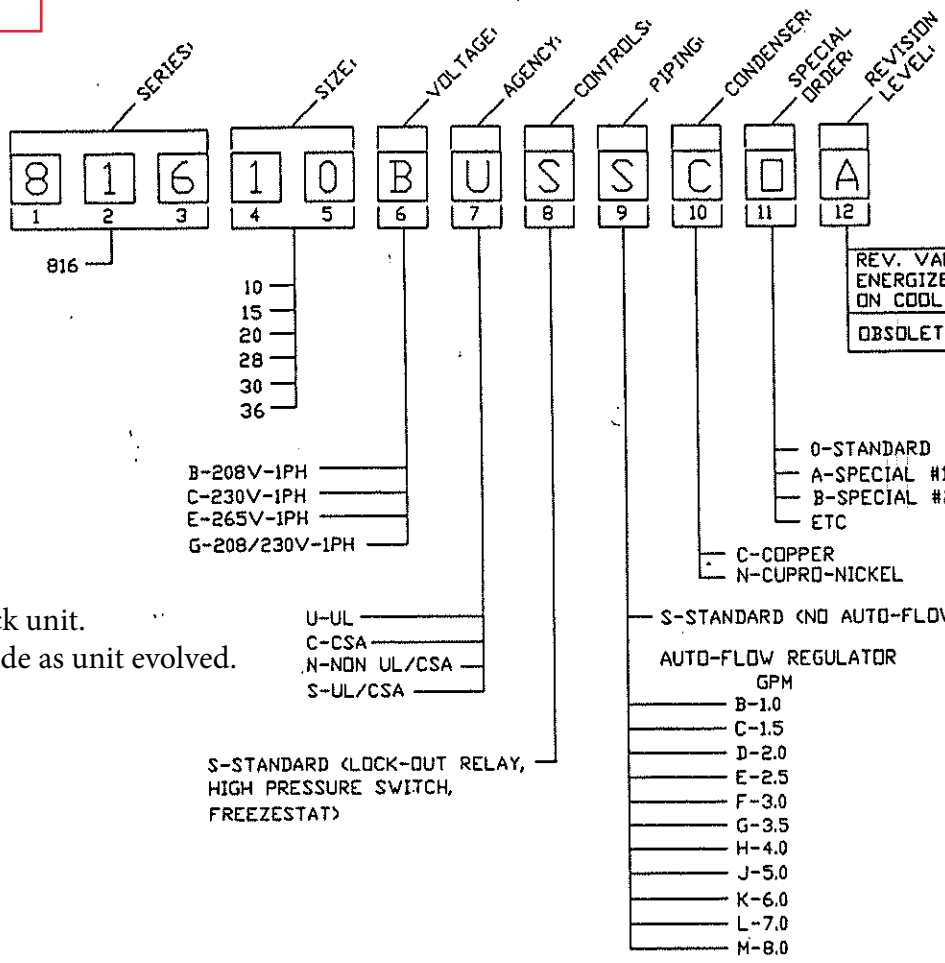
Probably the most significant change was the switch from line voltage controls, to digital controls using the CXM/DXM. This is a very important when recommending replacement units. If one replaces the chassis with the original control code S (the majority of the old units), then you will get a line voltage control system that is not upgradable to modern controls.

We recommend replacing an S controlled unit with a P control. This change requires that the matching cabinet kit be installed also.

To order the cabinet you need to know the control board (CXM or DXM) and the type of electrical connection. There are three types of electrical connection and it depends on how the building is wired.

The types are hard wired. Connect through a non-fused disconnect, or connect through a breaker and box.

Vertical Stack



VERTICAL COIL				
		10 & 15	20	28,30,36
REV. VALVE ENERGIZED ON COOL	STANDARD	F	D	E
	TRANE	V	T	U
OBSOLETE	A, B, & C			

- B-208V-1PH
- C-230V-1PH
- E-265V-1PH
- G-208/230V-1PH

- U-UL
- C-CSA
- N-NON UL/CSA
- S-UL/CSA

S-STANDARD (LOCK-OUT RELAY, HIGH PRESSURE SWITCH, FREEZESTAT)

- 0-STANDARD
- A-SPECIAL #1
- B-SPECIAL #2
- ETC

- C-COPPER
- N-CUPRO-NICKEL

- S-STANDARD (NO AUTO-FLOW REGULATOR)
- AUTO-FLOW REGULATOR
- GPM
- B-1.0
- C-1.5
- D-2.0
- E-2.5
- F-3.0
- G-3.5
- H-4.0
- J-5.0
- K-6.0
- L-7.0
- M-8.0

THE 816 was a vertical stack unit. Multiple revisions were made as unit evolved.

G REV. & REDRAWN	JD	 	4/25/90	EB

UNLESS SPECIFIED OTHERWISE DIMENSIONS ARE IN INCHES. TOLERANCES ON:

DECIMALS = ±.031
ANGLES = ±1°

MATERIAL:

ClimateMaster 7300 SW 44th OKLA. CITY, OK 73

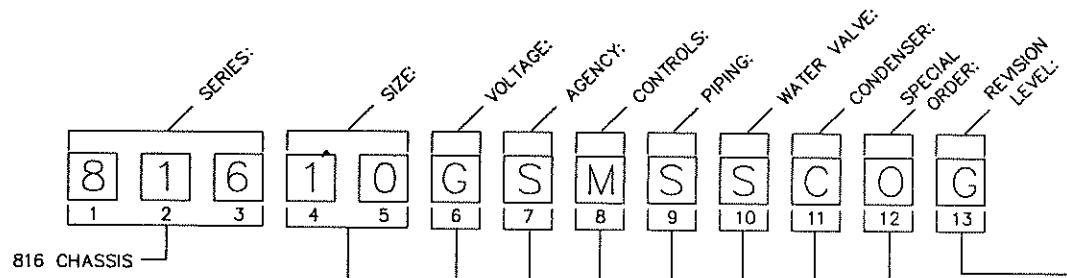
TITLE: STACK UNIT DECODING SHEET (CHASSIS)

DRAWN: JD	DATE: 4/23/90	DRAWING NO: 68237000
ENG:	DATE:	C.A.D. NO: 68237000
ISSUED:	DATE:	SCALE: 1

A | SHT. 1 OF

CLASS CODE: Z80

Vertical Stack



- 10
- 15
- 20
- 28
- 30
- 36

- A-115V-1PH(10&15 ONLY)
- E-265V-1PH
- G-208/230V-1PH
- V- 220/240-1PH-50 HZ

CURRENT REVISION	SIZE
G	10,15 ONLY
H	30 REPLACEMENT FOR REV A-G ONLY
J	20,28,30&36 ONLY

- O-STANDARD
- A-SPECIAL #1
- B-SPECIAL #2
- ETC

- C-COPPER, RV ENERGIZED ON COOL
- N-CUPRO-NICKEL, RV ENERGIZED ON COOL
- H-COPPER, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)
- J-COPRO-NICKEL, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)

- S-AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- N-NON AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- E- CE MARKED FOR EUROPEAN MARKETS

REPLACEMENT ONLY ① S- STANDARD (LINE VOLTAGE, PILOT DUTY LOCK-OUT RELAY, N.O. HIGH PRESSURE SWITCH , LOW PRESSURE SWITCH OR HIGH DISCHARGE TEMP SWITCH,FREEZESTAT AND QUICK CONNECT CORD.)

OBSOLETE ① A AMODE (ORDER "S" AND P/N S69326530 KIT)

OBSOLETE ① Z CMC CONTROLS (ORDER "M" AND P/N S69326533 KIT)

① M- COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER ELECTRO-MECHANICAL OR CMC CABINETS.

- S-W/O WATER VALVE
- M-NC MOTORIZED WATER VALVE

S-STANDARD (W/O AUTO-FLOW REGULATOR)

SIZES

GPM CODE	5/8 SWEAT				7/8 SWEAT	
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30	UNIT 36
C	1.5					
D	2.0	2.0				
E	2.5	2.5			N/A	
F	3.0	3.0	3.0			
G		3.5	3.5			
H		4.0	4.0	4.0		
J		5.0	5.0	5.0	5.0	
K			6.0	6.0	6.0	6.0
L				7.0	7.0	7.0
M					8.0	8.0
N	N/A				9.0	9.0
P					10.0	10.0

NOTES:
1. SEE CABINET DECORDER FOR CABINET & CHASSIS CONTROL COMPATIBILITY.

DESCRIPTION	BY	PCN	DATE	APPROVED	REV
REMOVED ITEM "H" SIZE 20,28 FROM REV LEVEL:	JMC	97-0430	01/20/98	MW	
ADDED "E" TO AGENCY BOX	JMC	U11469	02/10/97	BM	
ADDED H REV TO 30 SIZE CHASSIS					
ADDED J REV TO 36 SIZE CHASSIS	RG	U11123	7/12/96	BM	

DESCRIPTION	BY	PCN	DATE	APPROVED
MADE DIGIT 9 MATRIX: REPLACEMENT ONLY NOTE FOR S CONTROLS: RESTORED & OBSOLETE A CONTROLS; OBSOLETE Z CONTROLS; ADDED M CONTROLS. REVISED NOTE 1.	RG	U11101	6/28/96	BM

ClimateMaster 7300 SW 44th, OKLA. CITY, OK 73179

UNLESS SPECIFIED OTHERWISE DIMENSIONS ARE IN INCHES TOLERANCES ON:
DIMENALS = .031
ANGLES = .1°

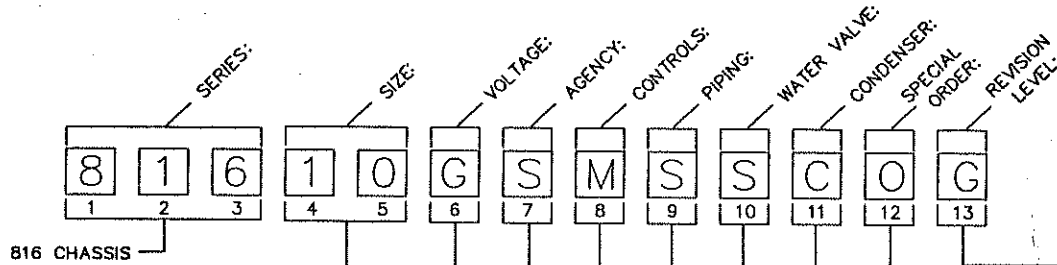
TITLE: STACK UNIT DECODING SHEET (CHASSIS)

DRAWN: RSS DATE: 7/25/95 DRAWING NO: 682370

ENG: DATE: C.A.D. NO: 682370

ISSUED: U10475 DATE: 7/25/95 SCALE: 1 SHEET 1

CLASS CODE: Z80



816 CHASSIS

- 10
- 15
- 20
- 28
- 30
- 36

- A-115V-1PH(10&15 ONLY)
- E-265V-1PH
- G-208/230V-1PH
- V- 220/240-1PH-50 HZ

- S-AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- N-NON AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- E- CE MARKED FOR EUROPEAN MARKETS

CURRENT REVISION	SIZE
G	10,15 ONLY
H	30 REPLACEMENT FOR REV A-G ONLY
J	20,28,30&36 ONLY

- 0-STANDARD
- A-SPECIAL #1
- B-SPECIAL #2
- ETC

- C-COPPER, RV ENERGIZED ON COOL
- N-CUPRO-NICKEL, RV ENERGIZED ON COOL
- H-COPPER, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)
- J-COPRO-NICKEL, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)

REPLACEMENT ONLY ① S- STANDARD (LINE VOLTAGE, PILOT DUTY LOCK-OUT RELAY, N.O. HIGH PRESSURE SWITCH, LOW PRESSURE SWITCH OR HIGH DISCHARGE TEMP SWITCH, FREEZESTAT AND QUICK CONNECT CORD.)

OBSOLETE ④ A- AMODE (ORDER "S" AND P/N S69326530 KIT)

OBSOLETE ④ Z- CMC CONTROLS (ORDER "M" AND P/N S69326533 KIT)

① M- COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER ELECTRO-MECHANICAL OR CMC CABINETS.

NOTES:
1. SEE CABINET DECORDER FOR CABINET & CHASSIS CONTROL COMPATIBILITY.

- S-W/O WATER VALVE
- M-NC MOTORIZED WATER VALVE
- S-STANDARD (W/O AUTO-FLOW REGULATOR)

GPM CODE	5/8 SWEAT				7/8 SWEAT	
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30	UNIT 36
C	1.5					
D	2.0	2.0				
E	2.5	2.5				
F	3.0	3.0	3.0			
G		3.5	3.5			
H		4.0	4.0	4.0		
J		5.0	5.0	5.0	5.0	
K			6.0	6.0	6.0	6.0
L				7.0	7.0	7.0
M				8.0	8.0	8.0
N				9.0	9.0	9.0
P				10.0	10.0	10.0

NOT AVAILABLE AT THIS TIME

REV	DESCRIPTION	BY	PCN	DATE	APPROVED/REV
U	REMOVED ITEM "H" SIZE 20,28 FROM REV LEVEL;	JMC	97-0430	01/20/98	MW
T	ADDED "E" TO AGENCY BOX	JMC	U11469	02/10/97	BM
S	ADDED H REV 7 SIZE CHASSIS	RG	U11123	7/12/96	BM
	ADDED J REV 10 SIZE CHASSIS				

DESCRIPTION	BY	PCN	DATE	APPROVED
MADE DIGIT 9 MATRIX: REPLACEMENT ONLY NOTE FOR S CONTROLS; RESTORED & OBSOLETE A CONTROLS; OBSOLETE Z CONTROLS; ADDED M CONTROLS; REVISED NOTE 1.	RG	U11101	6/28/96	BM

ClimateMaster 7300 SW 44th AVE. OKLA. CITY, OK 73174

STACK UNIT DECODING SHEET (CHASSIS)

ISSUED: U10475 DATE: 7/25/95 SCALE: 1

DRAWING NO. 682370

C.A.D. NO. 682370

DATE: 7/25/95

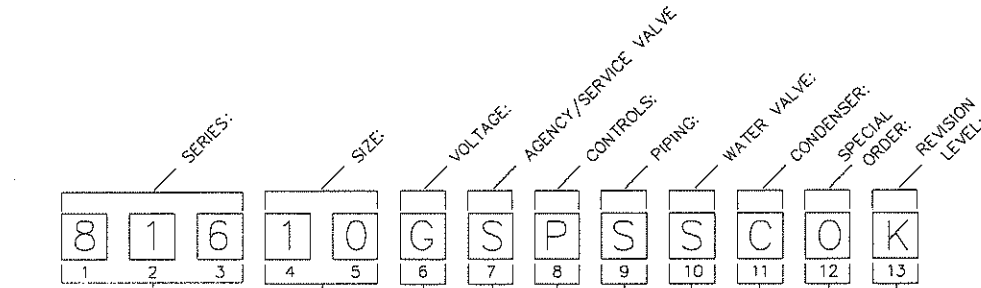
SCALE: 1

SHEET 1

DRAWING NO:

Decoder High Rise 816 Chassis

CLASS CODE: Z80



- 10
- 15
- 20
- 28
- 30
- 36

- A-115V-1PH(10&15 ONLY)
- E-265V-1PH
- G-208/230V-1PH
- V- 220/240-1PH-50 HZ

CURRENT REVISION	SIZE
K	10/15
L	20
L	28
K	30/36

- O--STANDARD
- A--SPECIAL #1
- B--SPECIAL #2
- ETC

- S- AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- N- NON AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
- E- CE MARKED FOR EUROPEAN MARKETS
- N- SERVICE VALVE IN THE COMPRESSOR COMPARTMENT
- S- SERVICE VALVE IN FRONT ACCESS COMPARTMENT

- C--COPPER, RV ENERGIZED ON COOL
- N--CUPRO--NICKEL, RV ENERGIZED ON COOL
- H--COPPER, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)
- J--COPRO--NICKEL, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)

- S--W/O WATER VALVE
- M--NC MOTORIZED WATER VALVE
- H--NC MOTORIZED WATER VALVE W/HIGH MOPD 50 PSI.(Cv=2.5)

S--STANDARD (W/O AUTO-FLOW REGULATOR)
SIZES

GPM CODE	5/8 SWEAT			7/8 SWEAT	
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30
C	1.5				
D	2.0	2.0			
E	2.5	2.5	2.5		
F	3.0	3.0	3.0		
G		3.5	3.5		
H		4.0	4.0	4.0	
J		5.0	5.0	5.0	5.0
K			6.0	6.0	6.0
L				7.0	7.0
M				8.0	8.0
N				9.0	9.0
P				10.0	10.0

REPLACEMENT ONLY ① S- STANDARD (LINE VOLTAGE, PILOT DUTY LOCK-OUT RELAY, N.O. HIGH PRESSURE SWITCH , LOW PRESSURE SWITCH OR HIGH DISCHARGE TEMP SWITCH, FREEZESTAT AND QUICK CONNECT CORD.)

② A-AMOD (ORDER "S" AND P/N S69326530 KIT)

③ W-CMG-CONTROLS (ORDER "W" AND P/N S69326533 KIT)

④ M-COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER CXM OR DXM CABINETS.

⑤ P-COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER CXM OR DXM CABINETS.

NOTES:
1. SEE CABINET DECORDER FOR CABINET & CHASSIS CONTROL COMPATIBILITY.

F CHANGED 20&28 SIZE UNIT FROM K TO L REV

G ADDED 28 INCH UNIT FOR THE 20 SIZE UNIT

H ADDED "K" REV. INFORMATION

I ADDED "M" TO "O" (10)

J REVISED "N" AND "P" FROM "O" (10) "M"

K ADDED "XV" CHANGED AIR COIL

SAM 02-0092 4/4/02

SAM 02-0039 2/6/02 EN

SAM 01-0248 7/30/01 EN

SAM 01-0149 5/3/01 EN

SAM 01-0065 2/13/01 EN

JK 000347 6/29/00 KW

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OKLA. CITY, OK 73179

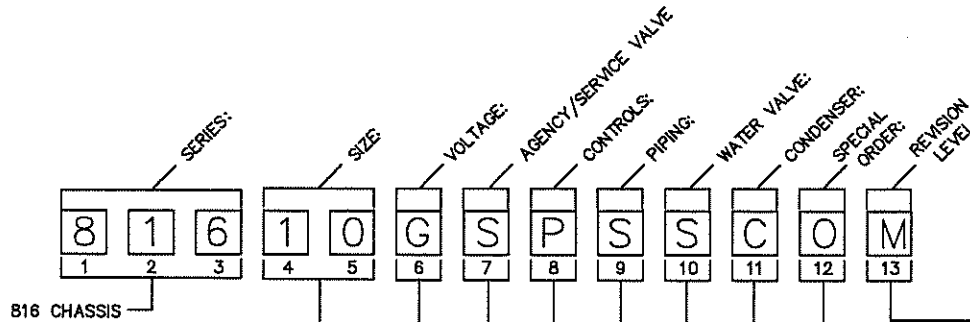
DRAWING NO: Decoder High Rise 816 Chassis

DRAWN: JK DATE: 6/28/00 ENG: KW DATE: 6/25/02

ISSUED: 000347 DATE: 6/23/00 A. SHEET 1-1

DRAWING NO: Decoder High Rise 816 Chassis

CLASS CODE: Z80



- 10
- 15
- 20
- 28
- 30
- 36

CURRENT REVISION	SIZE
M	10/15
M	20
M	28
M	30/36

- A-115V-1PH(10&15 ONLY)
- E-265V-1PH
- G-208/230V-1PH
- V- 220/240-1PH-50 HZ

- REV. A-J
- S-AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
 - N-NON AGENCY APPROVED FOR U.S. AND CANADIAN MARKETS
 - E- CE MARKED FOR EUROPEAN MARKETS
- REV. K, M
- N- SERVICE VALVE IN THE COMPRESSOR COMPARTMENT
 - S- SERVICE VALVE IN FRONT ACCESS COMPARTMENT

- 0-STANDARD
- A-SPECIAL #1
- B-SPECIAL #2
- ETC

- C-COPPER, RV ENERGIZED ON COOL
- N-CUPRO-NICKEL, RV ENERGIZED ON COOL
- H-COPPER, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)
- J-COPRO-NICKEL, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)

- S-W/O WATER VALVE
- M-NC MOTORIZED WATER VALVE
- H-NC MOTORIZED WATER VALVE W/HIGH MOPD 50 PSI.(Cv=2.5)

S-STANDARD (W/O AUTO-FLOW REGULATOR)

SIZES

GPM CODE	5/8 SWEAT				7/8 SWEAT	
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30	UNIT 36
C	1.5					
D	2.0	2.0				
E	2.5	2.5	2.5			
F	3.0	3.0	3.0			
G		3.5	3.5			
H		4.0	4.0	4.0		
J		5.0	5.0	5.0	5.0	
K			6.0	6.0	6.0	6.0
L				7.0	7.0	7.0
M				8.0	8.0	8.0
N				9.0	9.0	9.0
P					10.0	10.0

REPLACEMENT ONLY ① S- STANDARD (LINE VOLTAGE, PILOT DUTY LOCK-OUT RELAY, N.O. HIGH PRESSURE SWITCH , LOW PRESSURE SWITCH OR HIGH DISCHARGE TEMP SWITCH,FREEZESTAT AND QUICK CONNECT CORD.)

OBSOLETE ① A AMODE (ORDER "S" AND P/N S69326530 KIT)

OBSOLETE ① Z CMC CONTROLS (ORDER "M" AND P/N S69326533 KIT)

REPLACEMENT CHASSIS ONLY ① M- COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER ELECTRO-MECHANICAL OR CMC CABINETS.

① P- COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER CXM OR DXM CABINETS.

NOTES:
1. SEE CABINET DECORDER FOR CABINET & CHASSIS CONTROL COMPATIBILITY.

REV	DESCRIPTION	BY	PCN	DATE	APPROVED
G	REMOVED PREVIOUS REVISIONS AND CHANGED TO REV M FOR FLEX HOSE	DR	03-0113	03/25/03	TN

7300 SW 44th
OKLA. CITY, OK 73179

DRAWING NO: Decoder High Rise 816 Chassis

DRAWN: JK DATE: 6/28/00 ENGR: KW DATE: 6/25/02

ISSUED: 000347 DATE: 6/23/00

A SHEET 1-1

DRAWING NO:

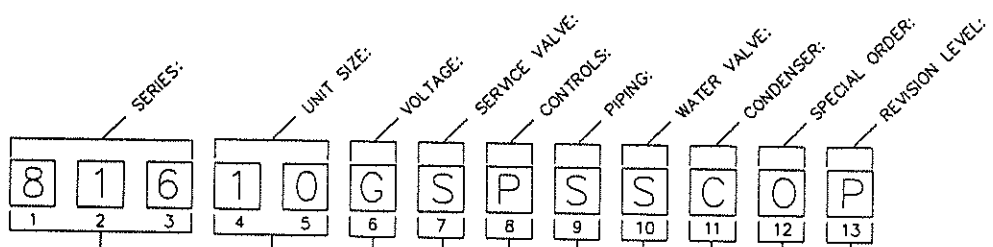
Decoder High Rise 816 Chassis

CLASS CODE: Z80

TABLE: 1

REVISION	CHANGE	UNIT SIZE
M	HOSE KITS	10-36
N	CLK COMPRESSORS	10-15
P	FP2 SENSOR	10-36
Q	TENSION BRACKET RELEASE	28-36

THE 816 was a vertical stack unit. Multiple revisions were made as unit evolved.



- 816 CHASSIS
- 10
 - 15
 - 20
 - 28
 - 30
 - 36
- E-265V-1PH
G-208/230V-1PH
V- 220/240-1PH-50 HZ

CURRENT REVISION:	* SEE TABLE: 1	
	10,15,&20	28,30,&36
STAINLESS STEEL FLEX HOSE WITH NEW VALVE ASSEMBLIES	P	Q
OBsolete	A, B, C, D, E, F, G, H, J, K, L, M, N & W	

- S - SERVICE VALVE IN FRONT ACCESS COMPARTMENT
- ① P - COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER CXM OR DXM CABINETS.
- ① R - SAME AS "P" CONTROLS WITH CE CABINET.

REPLACEMENT CHASSIS ONLY	
②	A - OBSOLETE (SEE NOTE 2 FOR ALTERNATE)
①	M - COMBINATION CONTROLS (24V N.C. SAFETIES) FOR USE W/ EITHER ELECTRO-MECHANICAL OR CMC CABINETS.
①	S - STANDARD (LINE VOLTAGE, PILOT DUTY LOCK-OUT RELAY, N.O. HIGH PRESSURE SWITCH , LOW PRESSURE SWITCH OR HIGH DISCHARGE TEMP SWITCH, FREEZESTAT AND QUICK CONNECT CORD.)
③	Z - OBSOLETE (SEE NOTE 3 FOR ALTERNATE)

- O-STANDARD
- A-SPECIAL #1
- B-SPECIAL #2
- ETC

- C-COPPER, RV ENERGIZED ON COOL
- N-CUPRO-NICKEL, RV ENERGIZED ON COOL
- H-COPPER, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)
- J-CUPRO-NICKEL, RV ENERGIZED ON HEAT (REPLACEMENT CHASSIS ONLY)

- S-W/O WATER VALVE
- M-NC MOTORIZED WATER VALVE
- H-NC MOTORIZED WATER VALVE W/HIGH MOPD 50 PSI.(Cv=2.5)

S-STANDARD (W/O AUTO-FLOW REGULATOR)

	GPM CODE FOR HAYS BRAND AUTO-FLOW REGULATOR					
	5/8 SWEAT			7/8 SWEAT		
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30	UNIT 36
C	1.5					
D	2.0	2.0				
E	2.5	2.5	2.5			
F	3.0	3.0	3.0			
G		3.5	3.5			
H		4.0	4.0	4.0		
J		5.0	5.0	5.0	5.0	
K			6.0	6.0	6.0	6.0
L				7.0	7.0	7.0
M				8.0	8.0	8.0
N				9.0	9.0	9.0
P					10.0	10.0

- NOTES:
- SEE CABINET DECODER FOR CABINET & CHASSIS CONTROL COMPATIBILITY.
 - IF DIGIT 8 = A (with AMODE) THEN ORDER "S" AND P/N S69326530 KIT.
 - IF DIGIT 8 = Z (with CMC CONTROLS) THEN ORDER "M" AND P/N S69326533 KIT.

L	ADDED REVISION "Q" TO SIZE 28-36 UNITS				
K	CHANGED REVISION CODE TO "P" AND ADDED "R" TO DIGET (8)	SAM	03-0325	10/22/03	
J	DIGIT 6 REMOVED "A";DIGIT 8 REWROTE "A" & "Z" ADDED NOTES 2 & 3;CHANGED DIGIT 13, 10/15 TO REV "N" (CLK COMPRESSOR)	SAM	03-0236	8/11/03	TN
H	DIGIT 7, MADE S THE ONLY OPTION	DR	03-0181	06/05/03	TN
G	REMOVED PREVIOUS REVISIONS AND CHANGED TO REV M FOR FLEX HOSE	DR	03-0139	04/15/03	TN

7300 SW 44th
OKLA. CITY, OK 73179

DRAWING NO: Decoder High Rise 816 Chassis

DRAWN: TV DATE: 03/03/03 ENG: DATE:

Decoder High Rise 816 Chassis

Z80

1 2 3 4 5 6 7 8 9 10 11 12 13
8 1 6 **1 0** **G** **S** **P** **S** **S** **C** **O** **S**

Model Type
816 Chassis

Unit Size

- 10
- 15
- 20
- 28
- 30
- 36

Voltage

- E = 265/60/1
- G = 208-230/60/1

Revision Level

- S = Current Revision Level for size 10 & 15
- Q = Current Revision Level for size 20 - 36
- A thru P & W are Obsolete

Standard

- O = Standard
- A = Special #1
- B = Special #2
- Etc....

Heat Exchanger Options

- C = Copper Coax w/Coated Air Coil
- N = Cupro-Nickel Coax w/Coated Air Coil
- L = Copper Coax w/Non-Coated Air Coil
- M = Cupro-Nickel Coax w/Non-Coated Air Coil
- H = Copper, RV Energized in Heating w/Coated Air Coil (Replacement Only)
- J = Cupro-Nickel, RV Energized in Heating w/Coated Air Coil (Replacement Only)

Water Valve & Pump Option

- S = No Water valve
- M = Standard Normally Closed Water Valve (DIGIT 8 MUST BE "P" or "M")
- N = Normally Open Water Valve (DIGIT 8 MUST BE "P" or "M")
- P = Secondary Circulating Pump (Digit 8 MUST BE "P" & Digit 9 MUST BE "S")

OPTION	S.S. Drain Pan	Insulated Tubing	AST008 RAS (Q)	AST008 RAS (O)
A	X	-	-	-
B	-	X	-	-
C	-	-	-	X
D	X	X	-	-
E	X	-	-	X
F	-	X	-	X
G	X	X	-	X
H	-	-	X	-
J	X	-	X	-
K	-	X	X	-
L	X	X	X	-
S	-	-	-	-

Controls

P = Standard (24V N.C. Safeties) for use with CXM or DXM

A = OBSOLETE (Amode) for replacement chassis order "S" Plus Kit P/N S69326530.

M = Combination Controls (24V N.C. Safeties) For use w/ether Electro-Mechanical or CMC Controls. (Compare with Cabinet Decoder for Compatibility)

S = Standard (Line Voltage, Pilot Duty Lock-Out Relay, Original chassis had N.O. Switches. Replacement has N.C. High Pressure Switch, Low Pressure Switch or High Discharge Temp Switch, FreezeStat and Quick Connect cord. (Compare with Cabinet Decoder for Compatibility)

Z = OBSOLETE (CMC) for replacement chassis order "M" Plus Kit P/N S69326533.

REPLACEMENT CHASSIS ONLY

Automatic Flow Regulator (US gpm)

GPM CODE FOR HAYS BRAND 2517 AUTO-FLOW REGULATOR

	S/S SWEAT			7/8 SWEAT		
	UNIT 10	UNIT 15	UNIT 20	UNIT 28	UNIT 30	UNIT 36
C	1.5					
D	2.0	2.0				
E	2.5	2.5	2.5			
F	3.0	3.0	3.0			
G		3.5	3.5			
H		4.0	4.0	4.0		
J		5.0	5.0	5.0	5.0	
K			6.0	6.0	6.0	6.0
L				7.0	7.0	7.0
M					8.0	8.0
N						9.0
P						10.0

S = NO FLOW REGULATOR

TABLE: 1

REVISION	CHANGE	UNIT SIZE
L	Compressor & coil upgrade	10-36
M	HOSE KITS	10-36
N	CLK COMPRESSORS	10-15
P	FP2 SENSOR	10-36
Q	Compressors on Springs 0609106 Digit 9 Made 2517 AFR Standard	10-36
10/15 = S 20-36 = Q	SIZE 10 & 15 ONLY, CHANGED TO TECUMSEH COMPRESSORS AND REV "S" ALL SIZES MAKE DIGIT 7 EXTENDED RANGE AND ADD OPTIONS "A", "B", "C", "D", "E", "F" & "G". DIGIT 10 REMOVE OPTION "H" (High MOPD) AND ADD OPTION "N" FOR NORMALLY OPEN WATER VALVE.	10-36

NOTES:

1. IF CABINET DIGIT "6" IS "H", "P" or "S" THEN CHASSIS DIGIT "7" MUST BE "C", "E", "F" or "G".
2. IF CABINET DIGIT "6" IS "H", "P" or "S" AND TSTAT IS A9155731 THEN CHASSIS DIGIT "7" MUST BE "H", "J", "K" or "L".



2 DIGIT "6" ADDED AS T008 RAS				DAR	08-0386	10/23/08	JIM T.	DRAWING NO. Decoder High Rise 816 Chassis			
SEE SHEET 2 FOR REVISION HISTORY				DRAWN	JK	DATE	8/28/00	ENG	KW	DATE	8/25/02
REV	DESCRIPTION	BY	PN	DATE	APPROVED	ISSUED	000347	PKG	8/23/00	A1 SHEET 1-2	

CAP NET

C 1 0 A B A A A A
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

UNIT SIZE		
	CAPACITY (MBH)	
	COOL	HEAT
10	9.0	11.3
15	12.5	16.2
20	20.0	19.0
28	25.4	32.0
30	28.4	32.4
36	32.4	37.4

CABINET STYLE	
A	= STANDARD W/RISERS
B	= EXPOSED W/RISERS
C	= MASTER W/RISERS
D	= SLAVE NO RISERS
F	= DITTO HALF W/RISERS
G	= DITTO HALF NO RISERS

VOLTAGE (SINGLE PHASE)	
B	= 208V
C	= 230V
E	= 265V
G	= 208/230V

ELECTRIC HEAT

CONTROLS

POWER CONNECTION

RA PANEL

ARRANGEMENT

SPECIAL ORDER

REV-SOZ COOL

ELECTRIC HEAT (BOILERLESS SYSTEM) ◀ O = NO REQUIREMENT SEE SH. FOR SIZING ▶

CONTROLS	
A	= UNIT MTD, LINE V., MCO
B	= UNIT MTD, LINE V., ACC
C	= 24V., REMOTE
D	= 24V., SURFACE MTD

POWER CONNECTION	
A	= 2 POLE SERVICE SWITCH
B	= 2 POLE SERV. SW. W/FUSE(S)
O	= STD (NO SERV. SW. OR FUSES)
X	= SPECIAL

TOP S.A. OPENING
SEE SH. 2

FACE S.A. OPENING
SEE SH. 2

ARRANGEMENT
SEE SH. 2

SPECIAL ORDER
A=SPECIAL#1
B=SPECIAL#2
ETC.

RETURN AIR PANELS			
A	STD -- w/ GRILLE	24 V. CTRL -- NO ACCESS DOOR	A
B		LINE V. CTRL w/ ACCESS DOOR	B
C	FRAMED w/ GRILLE	24 V. CTRL -- NO ACCESS DOOR	C
D		LINE V. CTRL w/ ACCESS DOOR	D
E	SOLID -- NO GRILLE	24 V. CTRL -- NO ACCESS DOOR	E
F		LINE V. CTRL w/ ACCESS DOOR	F
X	SPECIAL ~ CONSULT FACTORY ~		X

REVISION CODE			
A	---	10-36	VERT. COIL RV ON HEAT
B	---	10-36	VERT. COIL RV ON COOL
C	OBsolete	10 & 15	SLANT COIL RV ON COOL
E	---	10 & 15	VERT. COIL RV ON HEAT KOAX
F	SPECIAL	10-36	VERT. COIL RV ON COOL KOAX
D	STANDARD	10 & 15	SLANT COIL RV ON COOL KOAX
	STANDARD	20, 28, 36	VERT. COIL RV ON COOL KOAX

TRM Series Nomenclature

Cabinet

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

09 S G O N A A 1 A O O O O A

UNIT SIZE (TRM) SIZE / HFC-410A
09
12
15
18
24
30
36

CABINET STYLE	
P = STANDARD	.525 Flange "H" PANEL
Q = MASTER	
R = SLAVE	
S = STANDARD	1.250 Flange "G" PANEL
T = MASTER	
U = SLAVE	

VOLTAGE	
OPTION	160V/208V/230V/240V
G	208-230V/0/1
E	230V/0/1

OPTIONS			
OPTION	B.S. DRAIN PAN	MANUAL AIR VENT	RIBER CHASSIS
A	X	-	-
D	X	X	-
M	-	X	-
1	X	-	X
4	X	X	X
7	-	X	X
0	NO OPTIONS		

CONTROLS					
OPTION	CXM	DXM	SURFACE REMOTE/ WALL SENSOR	X-MOTOR	WFO/LOU
C	X	-	W	-	M
D	-	X	W	-	M
L	X	-	W	-	L
M	-	X	W	-	L
N	X	-	R	-	-
P	X	-	S	-	-
R	-	X	R	-	-
S	-	X	S	-	-
1	-	X	R	X	-
2	-	X	S	X	-
5	-	X	W	X	M
7	-	X	W	X	L
0	NO OPTION				

POWER TERMINATION					
OPTION	DISCONNECT SWITCH	BREAKER	NLS	1 SPD FAN SW	ELECTRIC HEAT
A	X	-	-	-	-
C	-	X	-	-	-
D	X	-	X	-	-
E	-	X	X	-	-
F	X	-	X	-	-
G	X	-	X	-	-
H	-	X	-	X	-
J	-	-	-	X	-
2	-	X	-	-	2.5kw
3	-	X	-	-	5.0kw
4	-	X	-	-	7.5kw
5	-	X	X	-	2.5kw
7	-	X	X	-	5.0kw
8	-	X	X	-	7.5kw
0	NO OPTIONS				

REVISION LEVEL
A = CURRENT R410A UNITS

STANDARD
O = STANDARD
A, B, C etc... = SPECIAL 1, 2, 3 etc...

SUPPLY AIR OPENING SIZES
A = 10"W x 6"H G = 14"W x 6"H
B = 10"W x 8"H H = 14"W x 8"H
C = 10"W x 10"H M = 16"W x 6"H
D = 12"W x 10"H P = 16"W x 10"H
E = 12"W x 12"H Q = 16"W x 12"H
F = 12"W x 6"H R = 16"W x 14"H
O = NO OPENINGS

TOP DISCHARGE OPENINGS BY UNIT SIZE

UNIT SIZE	OPENING
TRM-09 & 12	10" x 10"
TRM-15 & 18	13" x 13"
TRM-24, 30 & 36	17" x 17"

RETURN & SUPPLY AIR

QUANTITY OF AIR FLOW SUPPLIES	RETURN AIR POSITION	DIGIT 9&10	SUPPLY AIR POSITION				QUANTITY OF AIR FLOW SUPPLIES	RETURN AIR POSITION	DIGIT 9&10	SUPPLY AIR POSITION			
			FRONT	RIGHT	LEFT	TOP				FRONT	RIGHT	LEFT	TOP
S I N G L E S U P P L Y	FRONT	1A	X	-	-	-	T R I P L E S U P P L Y	FRONT	3A	X	X	X	-
	FRONT	1B	-	X	-	-		FRONT	3B	-	X	-	X
	FRONT	1C	-	-	X	-		FRONT	3C	X	-	X	X
	FRONT	1D	-	-	-	X		FRONT	3D	-	X	X	X
	RIGHT	1E	X	-	-	-		RIGHT	3E	X	X	X	-
	RIGHT	1F	-	X	-	-		RIGHT	3F	X	X	-	X
	RIGHT	1G	-	-	X	-		RIGHT	3G	X	-	X	X
	RIGHT	1H	-	-	-	X		RIGHT	3H	-	X	X	X
	LEFT	1J	X	-	-	-		LEFT	3J	X	X	X	-
	LEFT	1K	-	X	-	-		LEFT	3K	X	X	-	X
	LEFT	1L	-	-	X	-		LEFT	3L	X	-	X	X
	LEFT	1M	-	-	-	X		LEFT	3M	-	X	X	X
D O U B L E S U P P L Y	FRONT	2A	X	X	-	-	Q U A D S U P P L Y	FRONT	4A	X	X	X	X
	FRONT	2B	X	-	X	-		FRONT	4B	X	X	X	X
	FRONT	2C	X	-	-	X		FRONT	4C	X	X	X	X
	FRONT	2D	-	X	X	-		FRONT	4D	-	X	X	X
	FRONT	2E	-	-	X	X		FRONT	4E	-	-	X	X
	FRONT	2F	-	-	-	X		FRONT	4F	-	-	-	X
	RIGHT	2G	X	X	-	-		RIGHT	4G	X	X	X	-
	RIGHT	2H	X	-	X	-		RIGHT	4H	X	-	X	X
	RIGHT	2J	X	-	-	X		RIGHT	4J	X	X	X	-
	RIGHT	2K	-	X	X	-		RIGHT	4K	-	X	X	X
	RIGHT	2L	-	-	X	X		RIGHT	4L	-	-	X	X
	RIGHT	2M	-	-	-	X		RIGHT	4M	-	-	-	X
LEFT	2N	X	X	-	-	LEFT	4N	X	X	X	-		
LEFT	2P	X	-	X	-	LEFT	4P	X	-	X	X		
LEFT	2Q	X	-	-	X	LEFT	4Q	X	X	X	-		
LEFT	2R	-	X	X	-	LEFT	4R	-	X	X	X		
LEFT	2S	-	-	X	X	LEFT	4S	-	-	X	X		
LEFT	2T	-	-	-	X	LEFT	4T	-	-	-	X		

CABINET HEIGHT

OPTION	8"	8 1/2"	9"	10"
A	X	-	-	-
B	X	-	-	-
C	X	X	X	-
D	X	-	X	-
E	X	-	-	X
F	X	-	-	X
G	X	X	X	X
H	X	-	X	X

DIAGRAMS:

- FRONT:** Shows supply air openings (A-H) and return air positions (FRONT, RIGHT, LEFT, TOP).
- BACK:** Shows return air positions (FRONT, RIGHT, LEFT, TOP).
- REVISION LEVEL:** A = CURRENT R410A UNITS.