ACTIVE CHILLED BEAM LINEAR 24" WIDE

STANDARD CONSTRUCTION:
• ALL METAL ASSEMBLY
• 20 GAUGE GALVANIZED STEEL
• ALUMINUM FINNS
• COPPER WATER PIPING

ELEVATION
□ SEA LEVEL □ HIGH ALTITUDE _______ FT

FINISH COLOR (FACE)
(VISIBLE FROM ROOM SIDE):
□ B12 WHITE POWDER PAINT
□ B25 SPECIAL POWDER PAINT

PLENUM COLOR
(NOT VISIBLE FROM ROOM SIDE):
□ UNPAINTED GALVANEAL (DEFAULT)
□ MATCH - MATCHES FINISH COLOR

FACE STYLE:
□ PERFORATED (SHOWN)
□ BAR GRILLE

NOTE: FACTORY TOLERANCE = 1/32"

**SEE SUBMITTAL 248824 FOR AVAILABLE HOSE AND VALVE PACKAGES

DISCHARGE:
□ 1W - ONE WAY
□ 2W - TWO WAY

COIL TYPE:
□ 2P1C = 2 PIPE, 1 CIRCUIT
□ 2P2C = 2 PIPE, 2 CIRCUIT
□ 4P1C = 4 PIPE, 1 CIRCUIT
□ 4P2C = 4 PIPE, 2 CIRCUIT
□ DV = DRAIN & VENTS

COIL FINISH:
□ UNPAINTED (DEFAULT)
□ BLACK PAINTED COIL

INLET SIZE (D)*:
□ 5" (127) ROUND
□ 6" OVAL EQUIV. (4"xHx7"W)
□ 8" OVAL EQUIV. (4"xHx10.125"W)
*AIRFLOW NOT TO EXCEED 750 FPM

COIL CONNECTION:
□ 1/2" SWEAT
□ 1/2" NPT - FEMALE
□ 1/2" NPT - MALE
□ 1/2" NPT - 90º FEMALE

INSULATION OPTIONS:
□ 1/2" FIBERFREE - INTERNAL
□ 1/2" FIBERFREE - EXTERNAL
□ INTERNAL & EXTERNAL
□ NONE (DEFAULT)

NOTE: WEIGHTS ARE FOR PERFORATED FACE UNITS

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

2016/05/17

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ACTIVE CHILLED BEAM LINEAR 24" WIDE

MOUNTING BRACKET:
- FIXED (DEFAULT)
- ADJUSTABLE

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<tr>
<th>NOMINAL LENGTH</th>
<th>24&quot;</th>
<th>36&quot;</th>
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FIXED BRACKET AMOUNT PER LENGTH

MOUNTING BRACKET SPAN:
- 5 5/8"
- 3 9/16"

NOMINAL LENGTH:
- 16 11/16"

DETAIL A

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<tr>
<th>NOMINAL LENGTH</th>
<th>24&quot;</th>
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DIN BRACKET AMOUNT PER LENGTH

MOUNTING BRACKET SPAN:
- 3/4"
- 1 3/8"
- 1 1/2"

NOMINAL LENGTH:
- 4 5/8"

DETAIL B

PROJECT:  
ENGINEER: CT
CUSTOMER: 266851
SUBMITTAL DATE: 2016/05/17
SPEC. SYMBOL: ACBL24

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ACTIVE CHILLED BEAM LINEAR 24" WIDE

2-WAY DISCHARGE
INLET LOCATION OPTIONS:
- A - SIDE A
- B - SIDE B
- T - TOP

COIL PIPING
(NOT SELECTABLE
FOR 2-WAY)

TOP
VIEW

1-WAY DISCHARGE
COIL LOCATION OPTION:
- RH - RIGHT HAND (DEFAULT)
- LH - LEFT HAND

INLET LOCATION OPTIONS:
- A - SIDE A
- B - SIDE B
- T - TOP

AIR DISCHARGES THIS DIRECTION
(1-WAY DISCHARGE ONLY)

TOP
VIEW

PROJECT: CT
ACBL24
ACTIVE CHILLED BEAM
LINEAR 24" WIDE

ENGINEER: CT
CUSTOMER: 266851
SUBMITTAL DATE: 2016/05/17
ACTIVE CHILLED BEAM LINEAR 24" WIDE

DAMPER OPTIONS (SHIPPED LOOSE):
(DAMPERS SHOULD NOT BE MOUNTED DIRECTLY TO THE INLET AND SHOULD ONLY BE USED FOR TRIMMING AIRFLOW)

- MQ5 - 5" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ6 - 6" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ8 - 8" DAMPER W/ MANUAL LOCKING QUADRANT
- VAV5 - 5" DAMPER W/ 24VAC FLOATING POINT ACTUATOR
- VAV6 - 6" DAMPER W/ 24VAC FLOATING POINT ACTUATOR
- VAV8 - 8" DAMPER W/ 24VAC FLOATING POINT ACTUATOR

*DAMPER OPTIONS*  
*SEE SUBMITTAL 255245 FOR AVAILABLE FIXED VOLUME FLOW REGULATORS*
ACTIVE CHILLED BEAM LINEAR 24" WIDE

☐ ABS12 - FACE ACCESSIBLE BLANK SECTION, COIL SIDE
(ADD 12" TO ACTIVE COIL LENGTH)
(LOCATED ON COIL CONNECTION END)

* OVERALL LENGTH OF BEAM IS INCREASED BY 12".
MAXIMUM OVERALL BEAM LENGTH IS 120".

☐ RET12 - RETURN/EXHAUST SECTION
(ADD 12" TO ACTIVE COIL LENGTH)

* OVERALL LENGTH OF BEAM IS INCREASED BY 12".
MAXIMUM OVERALL BEAM LENGTH IS 120".

☐ ADS12 - ADDITIONAL AIR DIFFUSER SECTION
(ADD 12" TO ACTIVE COIL LENGTH)

* OVERALL LENGTH OF BEAM IS INCREASED BY 12".
MAXIMUM OVERALL BEAM LENGTH IS 120".

LOCATED OPPOSITE OF COIL CONNECTION END.
IF RETURN/EXHAUST ALSO SELECTED, RET IS BETWEEN ADS AND ACTIVE BEAM SECTION
ACTIVE CHILLED BEAM LINEAR 24" WIDE

- SLIM - SLIMLINE COUPLING

Notes: Units shown without any accessories. Units ship separately. Assembly on site required. Grille face is not continuous.

- Beams installed in continuous length with butt end joints
- Additional middle beams can be added

1-WAY DISCHARGES TO SIDE B INLET

- Side A
- Top
- Side B

- Coil piping location option
- Left hand (LH) (optional)
- Right hand (RH) (shown)

- Alignment bracket attaches one beam to the next by a self-drilling screw and (10-32 screw) provided
ACTIVE CHILLED BEAM LINEAR 24" WIDE

PATTERN CONTROLLERS

☐ ADJUSTABLE PATTERN CONTROLLERS
LOCATED IN DISCHARGE SLOT
(FIELD ADJUSTABLE, FACTORY SET AT 0 DEGREE DEFLECTION)

FACE DOES NOT HINGE, PULLS STRAIGHT DOWN WITH SAFETY TETHERS

ADJUSTABLE PATTERN CONTROLLERS

45 DEGREES
30 DEGREES
15 DEGREES
0 DEGREE

VARIOUS PATTERN CONFIGURATIONS, CONTACT APPLICATION ENGINEERING FOR ASSISTANCE
ACTIVE CHILLED BEAM LINEAR 24" WIDE

☐ WNG6 - WING EXTENSIONS
  (ENDCAPS SHIPPED LOOSE)

35 7/8"

2 9/16"

PROTECTIVE FILM:
☐ PF - PROTECTIVE FILM
  ON FACE AND AIR INLET

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:  SPEC. SYMBOL:

2016/05/17  266851  ACBL24
ACTIVE CHILLED BEAM LINEAR 24" WIDE
ACTIVE CHILLED BEAM LINEAR 24" WIDE

BORDER OPTIONS:
☐ STANDARD LAY-IN (DEFAULT)
☐ 9/16" TEGULAR
☐ 15/16" TEGULAR

STANDARD EDGE

9/16" TEGULAR EDGE

15/16" TEGULAR EDGE
12" WIDE ACTIVE CHILLED BEAM LINEAR - HIGH EFFICIENCY

STANDARD CONSTRUCTION:
• ALL METAL ASSEMBLY
• ALUMINUM FINS
• COPPER WATER PIPING
• STEEL NOZZLE PLATE

ELEVATION:
□ SEA LEVEL
□ HIGH ALTITUDE ___________ FT

CASING GAUGE:
□ 24 GAUGE (DEFAULT)
□ 20 GAUGE

FINISH COLOR (FACE):
□ UNPAINTED GALVANEAL (DEFAULT)
□ MATCH - MATCHES FINISH COLOR

PLENUM COLOR
□ NOT VISIBLE FROM ROOM SIDE:
□ B12 WHITE POWDER PAINT
□ B25 SPECIAL POWDER PAINT

FACE STYLE:
□ PERFORATED (SHOWN)
□ BAR GRILLE (EXTRUDED ALUMINUM)

COIL FINISH:
□ UNPAINTED (DEFAULT)
□ BLACK PAINTED COIL

COIL TYPE:
□ 2P1C = 2 PIPE, 1 CIRCUIT
□ 2P2C = 2 PIPE, 2 CIRCUIT
□ 4P1C = 4 PIPE, 1 CIRCUIT
□ 4P2C = 4 PIPE, 2 CIRCUIT
□ 2P1C-DV = 2 PIPE, 1 CIRCUIT, w/ DRAIN & VENTS
□ 2P2C-DV = 2 PIPE, 2 CIRCUIT, w/ DRAIN & VENTS
□ 4P1C-DV = 4 PIPE, 1 CIRCUIT, w/ DRAIN & VENTS
□ 4P2C-DV = 4 PIPE, 2 CIRCUIT, w/ DRAIN & VENTS

WEIGHTS ARE FOR PERFORATED FACE STYLE UNITS

** SEE SUBMITTAL 248924 FOR AVAILABLE HOSE AND VALVE PACKAGES

NOTES:
• FACTORY TOLERANCE +/- 1/32"
12" WIDE ACTIVE CHILLED BEAM LINEAR - HIGH EFFICIENCY

2-WAY DISCHARGE
INLET LOCATION OPTIONS:
☐ A - SIDE A
☐ B - SIDE B
☐ T - TOP

1-WAY DISCHARGE
COIL LOCATION OPTION:
☐ RH - RIGHT HAND (DEFAULT)
☐ LH - LEFT HAND

ONLY SIDE B INLET LOCATION IS AVAILABLE

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DAMPER OPTIONS (SHIPPED LOOSE):
(DAMPERS SHOULD NOT BE MOUNTED DIRECTLY TO THE INLET AND SHOULD ONLY BE USED FOR TRIMMING AIRFLOW)

- MQ5 - 5" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ6 - 6" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ8 - 8" DAMPER W/ MANUAL LOCKING QUADRANT

- VAV5 - 5" DAMPER W/ 24VAC FLOATING POINT ACTUATOR
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- VAV8 - 8" DAMPER W/ 24VAC FLOATING POINT ACTUATOR

*SEE SUBMITTAL 255245 FOR AVAILABLE FIXED VOLUME FLOW REGULATORS
12" WIDE ACTIVE CHILLED BEAM LINEAR - HIGH EFFICIENCY

ABS12 - FACE ACCESSIBLE BLANK SECTION, COIL SIDE
(ADD 12" TO ACTIVE COIL LENGTH)
(LOCATED ON COIL CONNECTION END)

* OVERALL LENGTH OF BEAM IS INCREASED BY 12"
MAXIMUM OVERALL BEAM LENGTH IS 120"

RET12 - RETURN/EXHAUST SECTION
(ADD 12" TO ACTIVE COIL LENGTH)

* OVERALL LENGTH OF BEAM IS INCREASED BY 12"
MAXIMUM OVERALL BEAM LENGTH IS 120"

ADS12 - ADDITIONAL AIR DIFFUSER SECTION
(ADD 12" TO ACTIVE COIL LENGTH)

ADS24 - ADDITIONAL AIR DIFFUSER SECTION
(ADD 24" TO ACTIVE COIL LENGTH)

* MAXIMUM OVERALL BEAM LENGTH IS 120"

INLET SIDE
A  B  T

LOCATED OPPOSITE OF COIL CONNECTION END.
12" WIDE ACTIVE CHILLED BEAM LINEAR - HIGH EFFICIENCY

- **SLIM - SLIM-LINE COUPLING**
  - Notes: Units shown without any accessories.
  - Units ship separately. Assembly on site required.
  - Grille face is not continuous.

- **BEAMS INSTALLED IN CONTINUOUS LENGTH WITH BUTT END JOINTS**

- **ADDITIONAL MIDDLE BEAMS CAN BE ADDED**

- **OVERALL LENGTH**

- **1-WAY DISCHARGES TO SIDE B INLET ONLY**

- **BEAMS INSTALLED IN CONTINUOUS LENGTH WITH BUTT END JOINTS**

- **ALIGNMENT BRACKET SLIDES FROM ONE BEAM TO NEXT AFTER INSTALLATION, AND LOCKS IN PLACE SIMILAR TO BEAM MOUNTING BRACKET (SCREWS PROVIDED BY OTHERS)**

- **PIN LATCHES TO OPEN FACES**

- **COIL PIPING LOCATION OPTION**
  - Left Hand (LH) (optional)
  - Right Hand (RH) (shown)

- **SLIMLINE SECTION 1 (SLIM-1)**
- **SLIMLINE SECTION MID (SLIM-MID)**
- **SLIMLINE SECTION 2 (SLIM-2)**

- **OVERALL LENGTH**

- **11 3/4'**
12" WIDE ACTIVE CHILLED BEAM LINEAR - HIGH EFFICIENCY

- WNG6 - WING EXTENSIONS
  (SHIPPED ASSEMBLED)

PROTECTIVE FILM:
- PF - PROTECTIVE FILM
  ON FACE AND AIR INLET

OVERALL LENGTH
+ 3/4"

PROJECT:
ENGINEER:
CUSTOMER:
SUBMITTAL DATE: SPEC. SYMBOL:

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PCBL - PASSIVE CHILLED BEAM LINEAR

标准化构造：
- 全金属装配
- 挤压铝制鳍片
- 铝制孔洞面
- 水管
- 制冷机侧部通风
- 房屋，24 ga钢

表面处理：
- B17黑色喷漆
- B12白色喷漆
- 其他

注释：
- 工厂公差 +/- 1/32” (1)
- 任何组合的宽度和长度都可以选择

保护膜：
- PF - 保护膜

项目：

工程师：DS

客户：PCBL

提交日期：2012/09/04

所有公制尺寸（）都是软转换的。英制尺寸转换为公制并四舍五入到最近的毫米。
PCBL - PASSIVE CHILLED BEAM LINEAR

- AF : ACTIVE FACE OPTION TO MATCH ACBL LOOK

STANDARD CONSTRUCTION:
- ALL METAL ASSEMBLY
- EXTRUDED ALUMINUM FINS
- ALUMINUM PERFORATED FACE
- COPPER WATER PIPING
- DRAIN AND VENTS ON WATER COIL
- ACBL STYLE MOUNTING BRACKET
- HOUSING, STEEL 24 GA

FINISH:
- BLK - B17 BLACK INTERIOR PAINT
- B12 WHITE FACE
- B12 WHITE POWDER COAT

NOTES:
- FACTORY TOLERANCE +/- 1/32" (1)

ACTIVE FACE STYLE:
- AFP - PERFORATED ALUMINUM
- AFG - BAR GRILLE (EXTRUDED ALUMINUM)

END CONDITION OPTIONS:
- 1/2" SWEAT
- 1/2" NPT (FEMALE)

* WEIGHTS ARE WITH PERFORATED FACE

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2012/09/04

SPEC. SYMBOL: 254721

PCBL PASSIVE CHILLED BEAM LINEAR

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PCBL-R : PASSIVE CHILLED BEAM LINEAR W/ INTEGRATED RETURN

STANDARD CONSTRUCTION:
- ALL METAL ASSEMBLY
- EXTRUDED ALUMINUM FINS
- ALUMINUM PERFORATED FACE
- COPPER WATER PIPING

FINISH:
- B17 BLACK PAINT
- B12 WHITE PAINT
- OTHER

NOTES:
- FACTORY TOLERANCE +/- 1/32" (1)

PROTECTIVE FILM:
- PF - PROTECTIVE FILM ON FACE AND COIL

FACE STYLE:
- PERFORATED ALUMINUM
- BAR GRILLE (EXTRUDED ALUMINUM)
- NONE (SHOWN)

END CONDITION OPTIONS:
- 1/2" SWEAT
- 1/2" NPT (FEMALE)

* ANY COMBINATION OF THE ABOVE WIDTH AND LENGTH CAN BE SELECTED
** SEE SUBMITTAL 248924 FOR AVAILABLE HOSE AND VALVE PACKAGES

WEIGHTS ARE WITH PERFORATED FACE

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<th>NOMINAL SIZE</th>
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**SEE SUBMITTAL 248924 FOR AVAILABLE HOSE AND VALVE PACKAGES**

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

2012/09/04 259760

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ACBM - 4 WAY ACTIVE CHILLED BEAM MODULAR

STANDARD CONSTRUCTION:
• ALL METAL ASSEMBLY
• ALUMINUM FINS
• COPPER WATER PIPING
• STEEL NOZZLE PLATE
• 24 GAUGE STEEL CONSTRUCTION

FINISH (FACE):
□ B17 BLACK POWDER PAINT
□ B12 WHITE POWDER COAT

INTERIOR COLOR:
□ B17 BLACK POWDER PAINT (DEFAULT)
□ B12 WHITE POWDER COAT

NOTES:
• FACTORY TOLERANCE +/- 1/32" (1)
** SEE SUBMITTAL 248924 FOR AVAILABLE HOSE AND VALVE PACKAGES

NOZZLE SIZE:
□ 20
□ 30
□ 40
□ 50
□ 60
□ 70

FACE STYLE:
□ PERFORATED
□ ALUMINUM (SHOWN)
□ BAR GRILLE (EXTRUDED ALUMINUM)

INLET SIZE (D):
□ 5" (125)
□ 6" (152)
□ 8" (203)

PIPING CONNECTION:
□ 1/2" SWEAT
□ 1/2" NPT - FEMALE (SHIPPED LOOSE)

COIL TYPE:
□ 2 PIPE, 1 CIRCUIT
□ 4 PIPE, 1 CIRCUIT

INSULATION:
□ 1/8" FIBERFREE - INTERNAL
□ 1/2" FIBERGLASS - EXTERNAL
□ INTERNAL & EXTERNAL

PROTECTIVE FILM:
□ PF - PROTECTIVE FILM ON FACE AND INLET

WEIGHT (lbs) NOMINAL SIZE
UNITS: W x L

IMPERIAL
METRIC

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NOTE: WEIGHTS ARE FOR A PERFORATED FACE STYLE UNIT

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

2012/04/12

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ACBR - ACTIVE CHILLED BEAM RECESSED

VERTICAL DOWN (VD) ORIENTATION, LH COIL CONNECTION SHOWN

STANDARD CONSTRUCTION:
• ALL METAL ASSEMBLY
• ALUMINUM FINS
• COPPER WATER PIPING
• 20 GAUGE STEEL CONSTRUCTION

ELEVATION:
☐ SEA LEVEL
☐ HIGH ALTITUDE ________ FT

FINISH:
☐ UNPAINTED GALVANNEAL (STANDARD)
☐ SPECIAL COLOR

INSULATION:
☐ 1/2" FIBERFREE - INTERNAL
☐ 1/2" FIBERFREE - EXTERNAL
☐ INTERNAL & EXTERNAL

INLET SIZE:
□ 3" ROUND
□ 4" ROUND
□ 5" OVAL EQUIV. (4"x6")
□ 6" OVAL EQUIV. (4"x7")
* 5", 6" INLET ONLY AVAILABLE IN C/D/E INLET LOCATIONS

DRAIN PAN:
□ DRAIN PAN
* DRAIN PAN ONLY AVAILABLE FOR VD, VU ORIENTATION

LINT SCREEN:
□ LINT SCREEN

PIPING CONNECTION:
□ 1/2" SWEAT
□ 1/2" NPT - MALE
□ 1/2" NPT - FEMALE

COIL TYPE:
□ 2P1C = 2 PIPE, 1 CIRCUIT
□ 2P2C = 2 PIPE, 2 CIRCUIT
□ 4P1C = 4 PIPE, 1 CIRCUIT
□ 4P2C = 4 PIPE, 2 CIRCUIT

☐ DV = DRAIN AND VENT

NOZZLE SIZE:
□ 406
□ 506
□ 608

PROTECTIVE FILM:
□ PF - PROTECTIVE FILM ON WATERCOIL, INLET, AND OUTLET

NOTES:
• FACTORY TOLERANCE +/- 1/32"

UNIT WEIGHT

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<th>WET (LBS)</th>
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** SEE SUBMITTAL 248924 FOR AVAILABLE HOSE AND VALVE PACKAGES.

** SEE PRICE CATALOG SECTIONS A AND D FOR SUPPLY / INDUCTION DIFFUSERS & GRILLES, TRANSITIONS TO BE FIELD FABRICATED & INSTALLED BY OTHERS.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL: 2017/05/9

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ACBR - ACTIVE CHILLED BEAM RECESSED

INSTALLATION ORIENTATION:
- VD = VERTICAL DOWN
- VU = VERTICAL UP
- H = HORIZONTAL

** NOTE: DRAIN PAN NOT AVAILABLE FOR HORIZONTAL ORIENTATION.

VD (VERTICAL DOWN) ORIENTATION

VU (VERTICAL UP) ORIENTATION

H (HORIZONTAL) ORIENTATION
ACBR - ACTIVE CHILLED BEAM RECESSED

MOUNTING BRACKETS FOR VD AND VU ORIENTATIONS

MOUNTING BRACKETS FOR H ORIENTATION

DIMENSIONS

<table>
<thead>
<tr>
<th>NOMINAL LENGTH</th>
<th>UNIT SIZE (L)</th>
<th>OVERALL LENGTH (L1)</th>
<th>VD, VU MOUNTING LENGTH (L2)</th>
<th>SUPPORT MOUNTING LENGTH (L3)</th>
<th>H MOUNTING LENGTH (L4)</th>
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PROJECT: SUBMITTAL DATE: 2017/05/9

ENGINEER: KHH
CUSTOMER: 268015

ACBR ACTIVE CHILLED BEAM RECESSED

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ACBR - ACTIVE CHILLED BEAM RECESSED

INLET LOCATION OPTIONS:
- A - SIDE A
- B - SIDE B
- C - SIDE C
- D - SIDE D
- E - SIDE E

COIL CONNECTION LOCATION OPTIONS:
- LEFT HAND (LH)
- RIGHT HAND (RH)

* HAND CONFIGURATION IS DETERMINED BY VIEWING THE UNIT LOOKING TOWARDS WATER COIL WITH THE OUTLET AIR DIRECTED DOWNWARDS.

* COIL CONNECTION AND DRAIN PAN CONNECTION ARE ALWAYS ON THE SAME SIDE.

COIL CONNECTION DIMENSIONS

LH WATERCOIL CONNECTION DIMENSIONS

RH WATERCOIL CONNECTION DIMENSIONS

COLD PIPE CONNECTION DIMENSIONS ARE CONSISTENT THROUGHOUT ALL COIL TYPES.

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ACBR - ACTIVE CHILLED BEAM RECESSED

DAMPER OPTIONS (SHIPPED LOOSE):
(DAMPERS SHOULD NOT BE MOUNTED DIRECTLY TO THE INLET AND SHOULD ONLY BE USED FOR TRIMMING AIRFLOW)

- MQ4 - 4" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ5 - 5" DAMPER W/ MANUAL LOCKING QUADRANT
- MQ6 - 6" DAMPER W/ MANUAL LOCKING QUADRANT
- VAV4 - 4" DAMPER W/ 24VAC FLOATING POINT ACTUATOR
- VAV5 - 5" DAMPER W/ 24VAC FLOATING POINT ACTUATOR
- VAV6 - 6" DAMPER W/ 24VAC FLOATING POINT ACTUATOR

*SEE SUBMITTAL 255245 FOR AVAILABLE FIXED VOLUME FLOW REGULATORS
ACBC - ACTIVE CHILLED BEAM CABINET

STANDARD CONSTRUCTION:
• ALL METAL ASSEMBLY
• ALUMINUM FINS
• COPPER WATER PIPING
• STEEL NOZZLE PLATE
• VENT/DRAINS ON WATER COIL
• 16 GAUGE EXTERIOR CASE

EXTERIOR FINISH:
• B12 WHITE POWDER PAINT (STANDARD)

INTERIOR FINISH:
• B17 BLACK POWDER PAINT (STANDARD)

NOTES:
• FACTORY TOLERANCE
  +/- 1/32” (1)

INLET LOCATION OPTIONS:
(CHOSE ONE):
• LEFT - 1L
• RIGHT - 1R
• BOTH - 1L1R

INLET SIZE (D):
• 5” (125)
• 6” (152)

PIPE CONNECTION OPTIONS (CHOOSE ONE):
• 1/2” SWEAT
• 1/2” NPT - FEMALE

COIL TYPE:
• 2 PIPE, 1 CIRCUIT
• 2 PIPE, 2 CIRCUIT
• 4 PIPE, 1 CIRCUIT
• 4 PIPE, 2 CIRCUIT

DRY WET

WEIGHT (lbs)
LENGTH Nominal
24 24 46 50
36 36 79 84
48 48 112 118
60 60 145 152
1200 67.750 (1721) 167 175
72 72 178 186
2000 87.438 (2201) 222 232
96 96 244 255

NOZZLE SIZE:
• 20
• 60
• 80
• 30
• 60
• 90
• 40
• 70

PROTECTIVE FILM:
• PF - PROTECTIVE FILM ON FACE AND INLET

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INTEGRATED PRESSURE PORT

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)

PRIMARY AIR INLET
D - 1/8”

INLET AIR INLET
LEFT COIL CONNECTION

INTEGRATED PRESSURE PORT

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INLET AIR INLET
RIGHT COIL CONNECTION

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)

PRIMARY AIR INLET
D - 1/8”

INLET AIR INLET
LEFT COIL CONNECTION

INTEGRATED PRESSURE PORT

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INLET AIR INLET
RIGHT COIL CONNECTION

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)

PRIMARY AIR INLET
D - 1/8”

INLET AIR INLET
LEFT COIL CONNECTION

INTEGRATED PRESSURE PORT

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INLET AIR INLET
RIGHT COIL CONNECTION

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)

PRIMARY AIR INLET
D - 1/8”

INLET AIR INLET
LEFT COIL CONNECTION

INTEGRATED PRESSURE PORT

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INLET AIR INLET
RIGHT COIL CONNECTION

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)

PRIMARY AIR INLET
D - 1/8”

INLET AIR INLET
LEFT COIL CONNECTION

INTEGRATED PRESSURE PORT

OUTLET AIR DISCHARGES FROM BOTTOM LOUVER FACE

INLET AIR INLET
RIGHT COIL CONNECTION

WALL MOUNTING BRACKETS

4.022

IL AIR INLET
LEFT COIL CONNECTION

IR AIR INLET
RIGHT COIL CONNECTION

WATER CONNECTIONS (LEFT HAND)

WATER CONNECTIONS (RIGHT HAND)
ACBC - ACTIVE CHILLED BEAM CABINET

FACE OPTIONS:

☐ TWIST LOUVER

☐ PERFORATED
RADKIT: HOSE AND VALVE PACKAGES

NOTE:
WATER COILS SHOULD BE ORDERED WITH FNPT 1/2" FITTINGS, OTHERWISE ADAPTERS (BY OTHERS) ARE REQUIRED

□ SH: SINGLE HOSE - UNIT TO UNIT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" NPT (MALE) HOSE CONNECTION

□ DH: DOUBLE HOSE - UNIT TO HEADER

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" NPT (MALE) HOSE CONNECTION

NOTE:
HOSE KITS ARE PRESSURE TESTED AND SHIPPED LOOSE FOR FIELD INSTALL BY OTHERS.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
RADKIT: HOSE AND VALVE PACKAGES

□ DSHO: DOUBLE HOSE W/ SHUT OFFS - UNIT TO HEADER

LENGTH:
□ 12"
□ 18"
□ 24"
□ 36"

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• SHUT OFF VALVES
• 1/2" VALVE BODY
• SWIVEL CONNECTION TO UNIT/COIL
• 1/2" FNPT VALVE CONNECTIONS TO TRUNK/HEADER

NOTES:
• ON/OFF ACTUATOR CONTROL ARE SPRING RETURN EQUIPPED.
• COIL CONNECTIONS ARE FEMALE SWEAT, TRUNK CONNECTIONS ARE FEMALE NPT.
• BASIC PACKAGES SHIPPED AS SEPARATE COMPONENTS FOR FIELD ASSEMBLY AND INSTALLATION BY OTHERS.
• HOSE KITS ARE PRESSURE TESTED AND SHIPPED LOOSE FOR FIELD INSTALL BY OTHERS.

PROJECT:

ENGINEER:  
CUSTOMER:  
SUBMITTAL DATE:  
SPEC. SYMBOL: 248924  
2012/10/18
RADKIT: HOSE AND VALVE PACKAGES

☐ DHMB: DOUBLE HOSE W/ SHUT OFFS AND MANUAL BALANCER - UNIT TO HEADER

1/2" MNPT CONNECTION SWIVEL END 1 x 2

PRESSURE TAP (x1)

UNIT

SUPPLY

VALVE BODY CONNECTION 1/2" FNPT SHOWN

RETURN

PRESSURE TAP FOR BALANCING (x2)

FIXED END ON VALVE SIDE (x2)

ACTUATOR CONTROL (ATC):
☐ ON/OFF @ 024 VOLT (024V)
☐ ON/OFF @ 120 VOLT (120V)
☐ ON/OFF @ 208 VOLT (208V)
☐ ON/OFF @ 230 VOLT (230V)
☐ ON/OFF @ 277 VOLT (277V)
☐ FLOATING POINT (FLP)
☐ MODULATING (MOD)
☐ NONE

LENGTH:
☐ 12"
☐ 18"
☐ 24"
☐ 36"

CV SELECTION (GPM @ 1 PSI):
☐ 0.23
☐ 0.46
☐ 0.87
☐ 1.80
☐ 3.30
☐ 5.40

VALVE BODY CONNECTION:
☐ 1/2" SWEAT
☐ 1/2" FNPT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• SHUT OFF VALVES
• 1/2" VALVE BODY
• SWIVEL CONNECTION TO UNIT/COIL
• 1/2" FNPT VALVE CONNECTIONS TO TRUNK/HEADER
• PRESSURE TAPS

NOTES:
• ON/OFF ACTUATOR CONTROL ARE SPRING RETURN EQUIPPED.
• COIL CONNECTIONS ARE FEMALE SWEAT, TRUNK CONNECTIONS ARE FEMALE NPT.
• ALL VALVES ARE NORMALLY CLOSED (NC). PLEASE CONTACT FACTORY IF NORMALLY OPEN (NO) IS REQUIRED
• CV MUST BE SELECTED ON PACKAGES AS CLOSE TO YOUR DESIGN GPM TO ENSURE PROPER CV ON BALANCING
• BASIC PACKAGES SHIPPED AS SEPERATE COMPONENTS FOR FIELD ASSEMBLY AND INSTALLATION BY OTHERS
• ATC IS SIEMENS STANDARD, HOWEVER OTHER ATCs CAN BE SUPPLIED AS SPECIAL
• HOSE KITS ARE PRESSURE TESTED AND SHIPPED LOOSE FOR FIELD INSTALL BY OTHERS.

PROJECT:

ENGINEER: DS
CUSTOMER: 248924
SUBMITTAL DATE: 2012/10/18
SPEC. SYMBOL: RADIANT RADKIT HOSE AND VALVE PACKAGES

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RADKIT: HOSE AND VALVE PACKAGES

DHAB: DOUBLE HOSE W/ SHUT OFFS AND AUTO BALANCER - UNIT TO HEADER

ACTUATOR CONTROL (ATC):
- ON/OFF @ 024 VOLT (024V)
- ON/OFF @ 120 VOLT (120V)
- ON/OFF @ 208 VOLT (208V)
- ON/OFF @ 230 VOLT (230V)
- ON/OFF @ 277 VOLT (277V)
- FLOATING POINT (FLP)
- MODULATING (MOD)
- NONE

FLOW RATE SELECTION (GPM):
- 0.50
- 0.75
- 1.00
- 1.50
- 1.75
- 2.00
- 2.50
- 3.00
- 3.50
- 4.00
- 4.50
- 5.00

CONSTRUCTION:
- BRAIDED STAINLESS STEEL
- SHUT OFF VALVES
- 1/2" VALVE BODY
- SWIVEL CONNECTION TO UNIT/COIL
- 1/2" FNPT VALVE CONNECTIONS TO TRUNK/HEADER
- PRESSURE TAPS

NOTES:
- ON/OFF ACTUATOR CONTROL ARE SPRING RETURN EQUIPPED.
- COIL CONNECTIONS ARE FEMALE SWEAT, TRUNK CONNECTIONS ARE FEMALE NPT.
- ALL VALVES ARE NORMALLY CLOSED (NC), PLEASE CONTACT FACTORY IF NORMALLY OPEN (NO) IS REQUIRED
- GPM MUST BE SELECTED ON PACKAGES AS CLOSE TO YOUR DESIGN GPM TO ENSURE PROPER CV ON BALANCING VALVE IS RECEIVED
- BASIC PACKAGES SHIPPED AS SEPERATE COMPONENTS FOR FIELD ASSEMBLY AND INSTALLATION BY OTHERS
- ATC IS SIEMENS STANDARD, HOWEVER OTHER ATCs CAN BE SUPPLIED AS SPECIAL
- HOSE KITS ARE PRESSURE TESTED AND SHIPPED LOOSE FOR FIELD INSTALL BY OTHERS.

PROJECT:

ENGINEER: DS
CUSTOMER: 248924
SUBMITTAL DATE: 2012/10/18
SPEC. SYMBOL: RADIANT RADKIT HOSE AND VALVE PACKAGES

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RADKIT: HOSE AND VALVE PACKAGES

FACTORY MOUNTING (AVAILABLE ON DH, DHSO, DHMB AND DHAB):
- FMC - FACTORY MOUNTED ON COLD WATER CONNECTION (CHOOSE THIS FOR 2-PIPE COIL)
- FMH - FACTORY MOUNTED ON HOT WATER CONNECTION

NOTES:
- FACTORY MOUNTED RADKITS ARE CONNECTED AND LEAK TESTED AT THE FACTORY
- CHILLED BEAM MUST BE ORDERED WITH NPT CONNECTIONS
- CONTROL VALVES SHOULD BE MOUNTED ON THE RETURN

ONE RADKIT FOR COLD OR HOT WATER COIL CONNECTION
RADKIT: HOSE AND VALVE PACKAGES

☐ ATC: AUTOMATIC TEMPERATURE CONTROL VALVE

ACTUATOR CONTROL (ATC):
- ON/OFF @ 024 VOLT (024V)
- ON/OFF @ 120 VOLT (120V)
- MODULATING (MOD) (0-10 Vdc)
- NONE

CV FLOWRATE:
- (GPM @ 1 PSI)
  - 1.0
  - 2.5

2-WAY VALVE BODY:
- 1/2" SWEAT (A=2.660 AND B=4.980)
- 1/2" NPT (A=2.760 AND B=5.130)

3-WAY VALVE BODY:
- 1/2" SWEAT (A=2.660 AND B=5.760)
- 1/2" NPT (A=2.760 AND B=5.840)

CONSTRUCTION:
- 1/2" BRASS VALVE BODY
- ON/OFF ACTUATORS ARE NORMALLY CLOSED (NC) SPRING RETURN

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
RADKIT: QUICK CONNECT HOSES AND SHUT OFFS

SHQ1: SINGLE HOSE QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECT & 1/2" NPT (FEMALE) HOSE CONNECTIONS

SHQ2: SINGLE HOSE QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECTS ON BOTH ENDS

DHQ1: DOUBLE HOSE QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECT & 1/2" NPT (FEMALE) HOSE CONNECTIONS

LENGTH:
12" □
18" □
24" □
RADKIT: QUICK CONNECT HOSES AND SHUT OFFS

☐ DHQ2: DOUBLE HOSE QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECTS ON BOTH ENDS

LENGTH:
☐ 12"
☐ 18"

☐ SHSOQ1: SINGLE HOSE W/ SHUT-OFF & QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECT & NPT (FEMALE) HOSE CONNECTIONS
• SHUT OFF VALVES

LENGTH:
☐ 12"
☐ 18"

 ☐ DHSQ1: DOUBLE HOSE W/ SHUT OFF & QUICK CONNECT

CONSTRUCTION:
• BRAIDED STAINLESS STEEL
• 1/2" PUSH-ON QUICK CONNECT & NPT (FEMALE) HOSE CONNECTIONS
• SHUT OFF VALVES

LENGTH:
☐ 12"
☐ 18"
VFR - VOLUME FLOW REGULATOR

STANDARD CONSTRUCTION:
• BLACK ABS PLASTIC, UL94V-0 RATED
• UL2043 LISTED
• SIZED TO FIT INSIDE STANDARD RIGID ROUND DUCTING
• INTEGRATED GASKET FOR SEALING AGAINST INSIDE OF DUCT

PERFORMANCE:
• CONTROLS AIRFLOW WITHIN 10% OF RATED FLOW (15% FOR UNITS 50 CFM OR LESS) FOR 0.2" TO 0.8" W.C.

NOTES:
• FACTORY TOLERANCE +/- 1/32" (1)

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<th>Duct Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>AIRFLOW SELECTIONS (CFM)</th>
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<td>8.100</td>
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<td>125, 140, 160, 175, 205, 235, 265, 295</td>
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PIC-HP: PRICE INTELLIGENT CONTROLLER FOR HYDRONIC PRODUCTS

NOTES:
- 96 VA CLASS 2 TRANSFORMER
- ETL CERTIFIED
- TOTAL CONNECTED LOAD NOT TO EXCEED 2 AMPS MAXIMUM 12 AIR DAMPERS TOTAL
- ONE PLENUM RATED CONNECTION CABLE PROVIDED WITH EACH VAV INLET
- POWER DISCONNECT SWITCH
- POWER AND SIGNAL STATUS LED'S
- 22 GAUGE GALV. STEEL ENCLOSURE

APPLICATION:
- INPUT SIGNAL FROM DDC CONTROLLER (NO THERMOSTAT) (0-10V DC COOLING)
- PIC-TS-SENS PRICE ROOM SENSOR THERMOSTAT (SEE SUBMITTAL 250050-100)
- PIC-TS-PRICE DIAL THERMOSTAT (SEE SUBMITTAL 250051-100)
- PIC-TS-LCD PRICE LCD THERMOSTAT (CELCIUS OR FAHRENHEIT OPTION) (SEE SUBMITTAL 250052-100)
- PIC-TS-MOTION PRICE MOTION SENSOR WITH LCD THERMOSTAT (CELCIUS OR FAHRENHEIT OPTION) (SEE SUBMITTAL 250053-100)
- WIRELESS D OPTION - WIRELESS THERMOSTAT (DIAL) AND BASE.

TRANSFORMER OPTIONS:
- 115/24 VAC 96 VA TRANSFORMER
- 277/24 VAC 96 VA TRANSFORMER

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PROJECT: DS
ENGINEER: PIC-HP
CUSTOMER: HYDRONIC PRODUCTS CONTROLLER
SUBMITTAL DATE: SPEC. SYMBOL: 2010/12/22

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
FACTORY MOUNTED PIC-HP OPTION

ENCLOSURE IS INSTALLED ON BEAM CASING. WHEN ORDERING TAG THE PIC-HP LINE WITH THE SAME TAG FOR THE REQUIRED BEAM TO ENSURE THEY MATCH UP CORRECTLY

CONDENSATE SENSOR (SHIPPED LOOSE)

SENSOR CAN BE MOUNTED TO COIL CONNECTIONS OF COIL OR UPSTREAM OF THE BEAM ON THE TUBING