1. INTENDED USE

Intended for use in typical low-profile unit cooler evaporator assemblies, freezers or refrigerators.

The EBM0210 fan assembly is driven by a 1/15th hp EC motor. If the motor being replaced has a nameplate hp rating higher than this, than the EBM0210 may not provide the required performance for the application.

Fin pitch and coil dimensions

The typical evaporator coil for this application is:

- 6 fins per inch

-approximately 4.5 inches deep with 4 tubes

-approximately 12.5 inches in height

Using this product in applications that are significantly different than these parameters is not recommended.
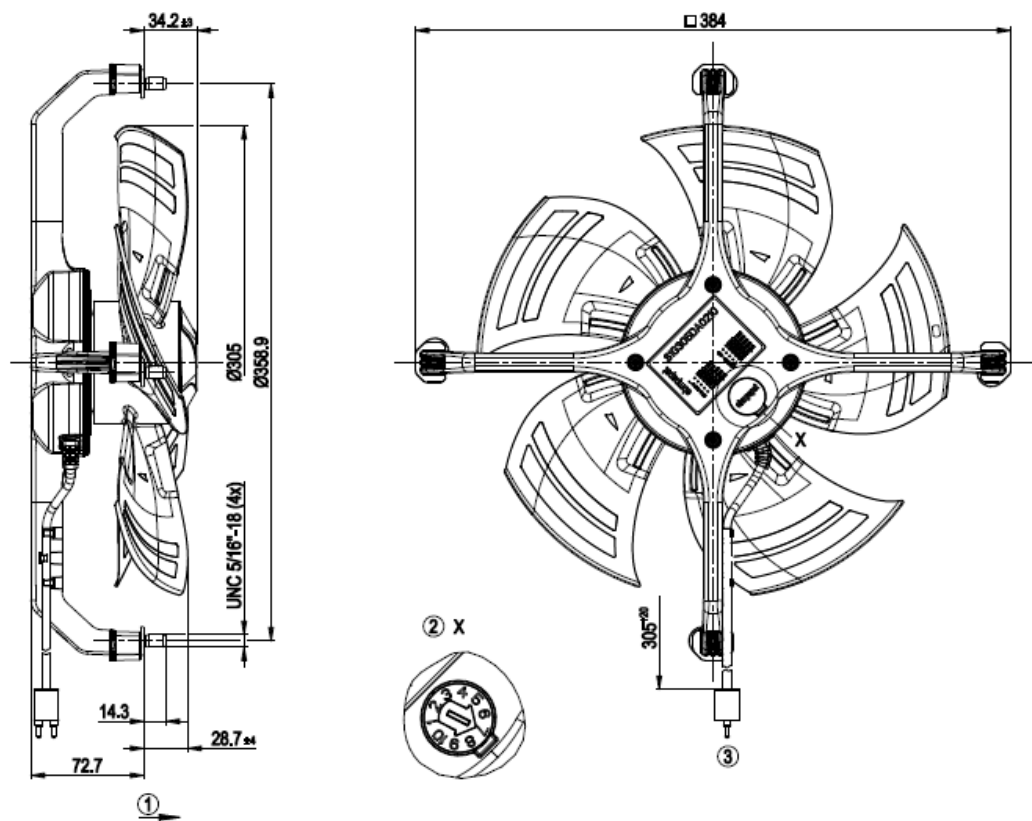
2. DEFAULT UNIT SETTINGS

The default fan set up as shipped matches the mounting and air flow requirements of Heatcraft / Bohn unit cooler models ADT

The fan speed is set to 1500 rpm (rotary switch step 7) at the factory. Reference section 5.1 for instructions on selecting a different speed.

Four UNC 5/16"-18 mounting studs are provided on a Φ358.9mm (14.1") bolt circle. Reference section 5.2 for instructions on using a different bolt circle.
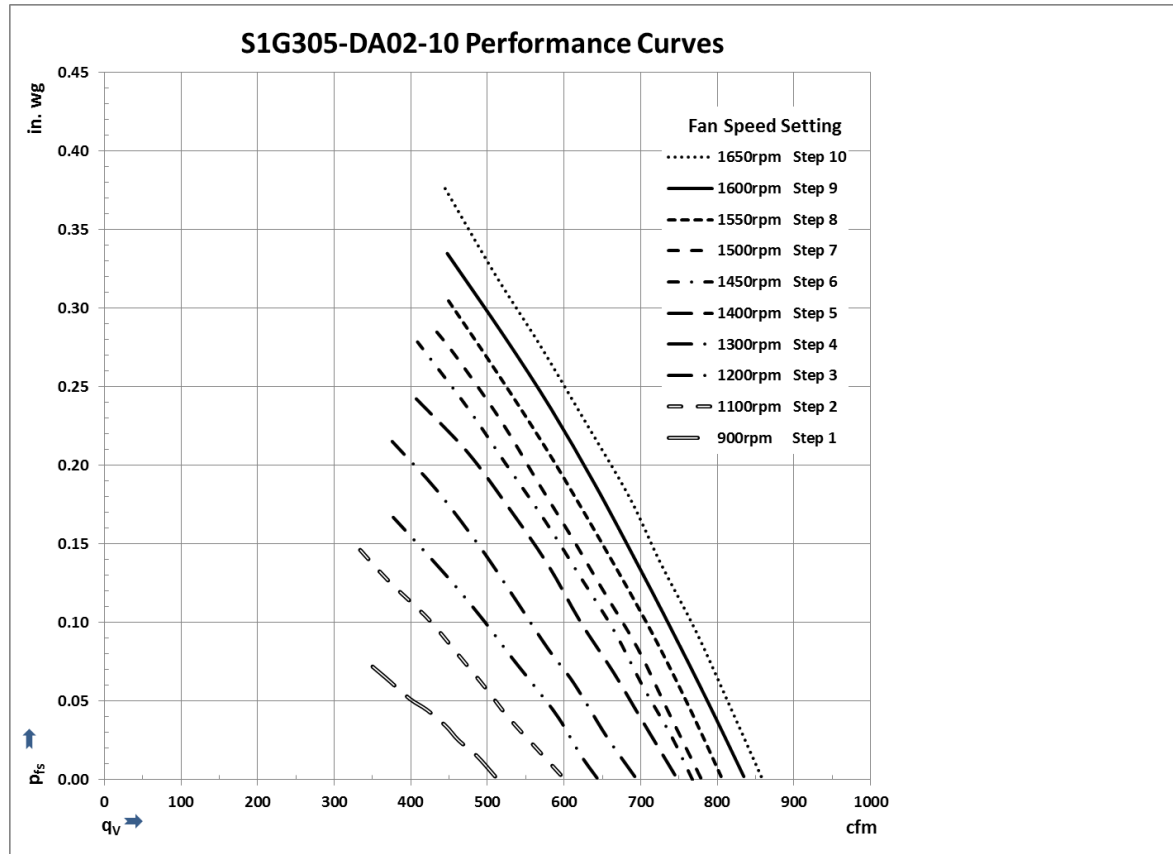
3. TECHNICAL DATA

3.1 Product drawing

All dimensions in mm.

1	Direction of air flow "A"
2	Illustration without cover plate; speed selection
3	Cable PVC AWG18, connector housing compatible with EMF Corporation P-2-1-075, 2x plug contact tyco 61013-2

3.2 Performance vs speed selection

S1G305-DA02-10 Performance Curves

Fan Speed Setting

....	1650rpm	Step 10
———	1600rpm	Step 9
- - - -	1550rpm	Step 8
— —	1500rpm	Step 7
— · —	1450rpm	Step 6
— —	1400rpm	Step 5
— ·	1300rpm	Step 4
— ·	1200rpm	Step 3
⊏ ⊏	1100rpm	Step 2
⊏⊏	900rpm	Step 1

(Graph: in. wg vs cfm; p_{fs} on vertical axis, q_V on horizontal axis)

4. MOUNTING ORIENTATION

The fan must be mounted with the shaft horizontal (vertical impeller) and the motor-side plug positioned at 6 o'clock. Routing wires downward will prevent condensation from running along the cable towards the motor.

5. OTHER APPLICATIONS

The following table lists speed and mounting information for different unit cooler applications.

OEM	Model	estimated speed setting (rpm)	bolt circle diameter [mm] / [in]	closest S1G305 match [mm] / [in]
CANCOIL THERMAL CORPORATION	ALP06301C; ELP05202B	1650		
Carrier			364.75 / 14.38	364.10 / 14.33
HEATCRAFT Worldwide Refrigeration	ADT120	1600	358.90 / 14.13	358.90 / 14.13
HTPG		1550		
KeepRite	KLP107MA-S1A/B	1450	363.47 / 14.31	364.10 / 14.33
KRACK	KR series		371.60 / 14.63	371.60 / 14.63
MB MASTER-BILT Refrigeration Solutions		1100		
RefPlus		1500		
Turbo air REFRIGERATOR MANUFACTURER	ADR073AE	1450		

5.1 Selecting a speed other than the default

A 10-position rotary selection switch is provided for changing the fan speed to something other than the default 1500 rpm. The speed should be set prior to mounting the fan in the unit cooler.

- Make sure the fan is disconnected from the power supply.
- The rotary switch is located on the back face of the fan housing (ref the product drawing in section x.x).
- Carefully pry off the rotary switch cover plate using a small flathead screwdriver placed in the available slot.
- Use the same screwdriver to rotate the switch to the desired speed step, referencing the fan label for the step vs speed information.
- Carefully replace the cover, being careful not to jam it.

5.2 Selecting a bolt circle other than the default

If the default mounting stud pattern does not fit the application, the mounting studs can be removed using a Torx IP20 driver and installed in one of the two other bolt circle options of Φ364.1mm (14.3") or Φ371.6mm (14.6"). If none of the three options fits the application, may need to slightly enlarge the holes in the sheet metal or drill new holes.

6. ELECTRICAL SPLICING

Electrical connections should be made by qualified personnel only. Removing the attached two pin male harness may be required in some applications. Any electrical connections must be made so that moisture cannot enter the conductors. Connections must not be placed in or near any pooling water in the drain pan Tuck and secure wiring out of the way of the moving fan blade.

7. OTHER:

Unit must be installed by trained professionals.

Installer must monitor and confirm that the set temperature is being maintained in the refrigerator or freezer before completing the installation.