

# **HES SERIES (High Efficiency) TUBE-ICE MACHINE**

**HES30 & HES40** 



**HES Series Options:** 

- **¥** Voltage 460v.,3p.,60hz.
- ¥ Voltage 400v.,3p.,50hz.
- **¥** Voltage 200/230v.,3p.,50hz.
- **★** High ambient air-cooled condenser
- **★** Electro-fin coated condenser
- **★** High pressure (200psig) water condenser/regulator
- **★** Casing security screws (Correctional usage)
- **★** Cutter for 1-1/2" long ice
- **¥** Flush valve assembly
- **★** "CE" Approval (400v, 50hz only)
- **★** Canadian Registration Number (CRN)
- **★** Export crating (ISPM-15 Rated)

The HES Series with a capacity range of 3000 to 4000 pounds of ice per day is the preferred choice of ice machine for thousands of food service applications worldwide.

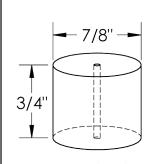
Heavy-duty industrial construction, automatic operation, energy efficiency and the best warranty in the business make the Vogt HES Series the only "clear" choice for your ice making needs.

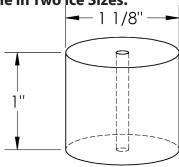
#### **HES Standard Features:**

- **¥** 25 Year Evaporator Warranty
- **¥** Voltage 208/230v.,3p.,60hz.
- ¥ Refrigerant 452a
- **★** Cutter for cylinder (default) or crushed ice operation
- \* Allen-Bradley PLC with thermocouples, pressure transducers and multiple built-in safeties
- ▼ 7" wide HMI display with remote access capability\*
- **★** Copeland Performance Alert power monitor
- \* Electronic ice bin thermostat
- **★** Stainless steel casings
- \* Integral drip pan

\*Requires connection to Internet (ethernet connection)

### **HES Tube-Ice Available in Two Ice Sizes:**





Energy usage based on makeup water temperature of 70  $^{\rm o}$  F. (21  $^{\rm o}$  C.), ambient (air) temperature of 90  $^{\rm o}$  F. (32  $^{\rm o}$  C.).

Capacity rating is average for the model.

Individual machines may vary +/- 5%.

Capacity based on ambient (air) temperature of 90 ° F. (32 ° C.).

Capacity reduced 17% for 50hz. operation.

Makeup water usage includes 20% blowdown.

|         | Machine Capacity    |        |         |       |      |         | Water Usage |                  |        |         | Energy Usage  |        |
|---------|---------------------|--------|---------|-------|------|---------|-------------|------------------|--------|---------|---------------|--------|
|         | Make-Up Temperature |        |         |       |      |         | Ice M       | Making Condenser |        |         | (KWH/100 lbs) |        |
|         | 50°F                | (10°C) | 70°F (2 | 21°C) | 90°F | (32 °C) | Gal/        | Liters/          | Gal/   | Liters/ | Water         | Air    |
| Model   | Lbs                 | Kg     | Lbs     | Kg    | Lbs  | Kg      | 100lbs      | 100lbs           | 100lbs | 100lbs  | Cooled        | Cooled |
| HES-30S | 3070                | 1393   | 2750    | 1247  | 2300 | 1043    | 14.5        | 54.9             | 220    | 833     | 3.32          | 4.11   |
| HES-30M | 2690                | 1220   | 2400    | 1089  | 2010 | 912     |             |                  | 341    | 1291    | 3.63          | 4.82   |
| HES-40S | 4070                | 1846   | 3620    | 1642  | 3230 | 1465    |             |                  | 171    | 647     | 3.38          | 4.24   |
| HES-40M | 3565                | 1617   | 3170    | 1438  | 2830 | 1284    |             |                  | 402    | 1522    | 3.80          | 4.85   |

Vogt Ice LLC

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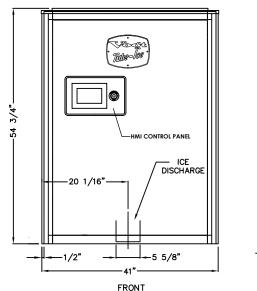


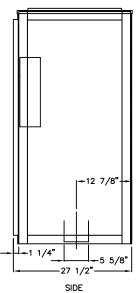


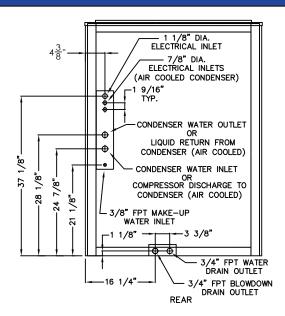


# **HES SERIES (High Efficiency) TUBE-ICE MACHINE**

**HES30 & HES40** 







NOTE: MACHINE FOOTPRINT WITHOUT CASINGS: 40" X 26" X 54"

## **Vogt HMI Display**



### **New Control Features and Benefits**

- Allen-Bradley PLC and sensors replace FPS, High/Low safety switches, thaw timer, DPS, etc.
- Secure remote connectivity\* with 5 user levels for extra security.
- Instant email notifications\* of machine faults sent to key users limiting down time.
- HMI displays tips for machine faults for quick and easy troubleshooting.
- Detailed history and trends enable early detection of

|        |                     | Ice Machine Electrical Information |          |             |            |          | Motor Information |       |        |              |            |      |      |
|--------|---------------------|------------------------------------|----------|-------------|------------|----------|-------------------|-------|--------|--------------|------------|------|------|
|        |                     | Water Cooled                       |          |             | Air Cooled |          |                   | Water | Cutter | Condenser    | Compressor | Ship | ping |
|        |                     |                                    | Min.     | Max. Fuse   |            | Min.     | Max. Fuse         | Pump  | Motor  | Fan Motor(s) |            | We   | ight |
| Model  | Voltage             | F.L.A.                             | Ampacity | Size (Amps) | F.L.A.     | Ampacity | Size (Amps)       | H.P.  |        |              | Lbs        | Kg   |      |
| HES-30 | 208/230V, 3ph, 60hz | 23.2                               | 27.4     | 40          | 33.5       | 38.3     | 55                |       |        |              |            |      |      |
|        | 460V, 3ph, 60hz     | 10.7                               | 12.6     | 20          | 11.6       | 13.5     | 20                |       |        | 2@1/2        | 4          | 1250 | 567  |
|        | 200/230V, 3ph, 50hz | 22.6                               | 26.4     | 40          | 30.6       | 34.4     | 45                |       |        |              |            |      |      |
|        | 400V, 3ph, 50hz     | 11.2                               | 13.1     | 20          | 12.1       | 14.9     | 20                | 1/3   | 1/2    |              |            |      |      |
| HES-40 | 208/230V, 3ph, 60hz | 25.7                               | 30.5     | 45          | 33.5       | 38.3     | 55                | 1/3   | 1/2    |              |            |      |      |
|        | 460V, 3ph, 60hz     | 12.8                               | 15.3     | 20          | 15.7       | 21.1     | 30                |       |        | 2@1/2        | 6          | 1275 | 578  |
|        | 200/230V, 3ph, 50hz | 28.3                               | 33.5     | 50          | 36.3       | 41.5     | 60                |       |        |              |            |      |      |
|        | 400V, 3ph, 50hz     | 12.8                               | 15.3     | 20          | 16.2       | 20.0     | 30                |       |        |              |            |      |      |

| Line Size Connections |          |          |  |  |  |  |  |  |
|-----------------------|----------|----------|--|--|--|--|--|--|
| Ice Mak               | 3/8" FPT |          |  |  |  |  |  |  |
| Drain Connections     | Overflow | 3/4" FPT |  |  |  |  |  |  |
|                       | Drip Pan | 3/4" FPT |  |  |  |  |  |  |
| * Condenser Water     | HES-30   | 3/4" FPT |  |  |  |  |  |  |
| Inlet and Outlet      | HES-40   | 1" FPT   |  |  |  |  |  |  |

<sup>\*\*</sup> See service manual or air-cooled installation instruction packet for sizing discharge and return piping.

NOTE: \* WATER COOLED MACHINE / \*\* AIR COOLED MACHINE

### **Operating Conditions**

The ice machine shall not be subjected to an atmospheric temperature lower than  $50\,^{\circ}$  F. ( $10\,^{\circ}$  C.) nor higher than  $90\,^{\circ}$  F. ( $32\,^{\circ}$  C.) without effect on performance. Water for condensing or ice making purposes shall be non-corrosive.

The water shall be at a constant pressure no less than 30lbs. at the ice machine location. The condition of the water to make satisfactory ice shall be the responsibility of the purchaser.