Medium Profile
Unit Cooler
Catalog 420

Walk-In
Coolers & Freezers
Medium to Large
Applications

Air Defrost  -  12,600 to 69,000 BTUH
Electric Defrost  -  10,500 to 52,000 BTUH
Hot Gas Defrost  -  10,500 to 52,000 BTUH
Features

• APPLICATIONS — Inter-Flo unit coolers are ideally suited for a wide range of coolers and freezers. IFA models are designed for use in coolers 35°F and above. IFE, IFG, and IFH units are suited for 35°F coolers (if mechanical defrost is required) and for room temperatures down to -30°F.

• SIZES — There are 37 models offered with capacities from 10,500 BTUH up to 69,000 BTUH @ 10°F TD. Air flow ranges from 3,320 CFM to 9,130 CFM.

• HOUSING — Each unit is constructed with a heavy-gauge mill-finish aluminum housing—lightweight yet extremely durable. All drain pans are hinged for convenient servicing and maintenance. Slotted hangers are provided for fast installation.

• COIL — Seamless copper tubes are staggered and mechanically expanded into heavy-gauge corrugated aluminum fins to assure maximum heat transfer. Die-formed fin collars are provided for accurate fin spacing. Heavy-gauge hangers are fastened directly to the tube sheet of the coil to provide high structural strength.

• REFRIGERANTS — Inter-Flo unit coolers are designed for most refrigerants including R-22, R-404A, R-134a, R-502 and R-507. Please specify system refrigerant requirements when ordering. A separate compartment is provided for all refrigerant connections which allows ample room for internal mounting of expansion valves. Inter-Flo units can also be used with chilled water or glycol solutions—contact the factory for selection.

• FANS — Powerful heavy-duty aluminum fans are individually balanced to provide vibration free operation.

• WIRE FAN GUARDS — Standard heavy-gauge wire fan guards are epoxy coated for corrosion resistance. Optional air straighteners are available for increased air throw where required.

• MOTORS — All motors are high-efficiency PSC ball-bearing type—life lubricated and thermally protected. Inter-Flo unit coolers use either 1/8 HP 1050 rpm or 1/3 HP 1075 rpm motors.

• ELECTRICAL — Inter-Flo units are available in 60 Hz 115/1, 208/230/1, 208/230/3, 460/1 or 460/3 power characteristics. They can also be operated on 50 Hz 220/1, 220/3, 380/1 and 380/3 power. All components are factory wired to convenient screw-type terminal blocks. A large compartment is supplied for all electrical components—easily accessible by removing the end panel.

• AIR DEFROST — For use in coolers +35°F and above. Complete air defrost systems are available from Witt.

• ELECTRIC DEFROST — The heaters are located inside the refrigeration coil itself to promote a more efficient and rapid defrost cycle than other designs. This arrangement enables the energy from the heaters to be conducted from the center of the core out, providing an even defrost pattern. All heaters are factory-installed and wired to screw-type terminal blocks, allowing for quick field hook-up or change-over from 1 to 3 phase with the installation of jumper wires. Three separate controls (fixed defrost termination, fan delay and heater safety controls) are factory-mounted for optimum performance of each control function. Drain pans are heated for fast reliable drainage. Defrost Kits are available as options. Complete Electric Defrost Systems are available from Witt. Contact the factory for details.

• HOT GAS RE-EVAP DEFROST — These units include separate fixed defrost-termination and fan-delay controls which are factory-mounted for optimum performance of each control function. A hot gas drain pan circuit is provided to eliminate the need for electric heat and additional wiring. A heat exchanger/re-evaporator is supplied as standard with every unit. Complete Hot Gas Re-Evap systems are available from Witt—contact the factory for details.

• HOT GAS REVERSE-CYCLE DEFROST — These units include separate fixed defrost-termination and fan-delay controls which are factory-mounted for optimum performance of each control function. A hot gas drain pan circuit is provided to eliminate the need for electric heat and additional wiring. This unit is also used for Alternating Evaporator System.
Options

- Copper Fins
- Coated fins (air and hot gas defrost models only)
- Galvanized steel housing
- Insulated drain pan
- Custom circuiting for chilled water or glycol applications
- High-throw fan guards (air straighteners)
- Reheat Kit
- Adjustable Defrost Termination/Fan Delay Control
- Contact factory for other requirements

Air Throw

Air throw is greatly affected by installation variables. Optimum air throw is obtained by high ceiling with no interference from beams or return air restrictions. Inter-Flo unit coolers will throw air up to 50 feet under ideal conditions; 60 to 70 feet with air straighteners.

NOMENCLATURE

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<th>INTER-FLO MODELS</th>
<th>IF</th>
<th>2 6 — 150</th>
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# PERFORMANCE DATA †

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50 Hertz Applications:

- Divide the BTUH requirement by 0.94, then select the unit cooler directly from the table above.
- † BTUH @ 10°F TD — R-22, 404a, 507

## Electric & Hot Gas Defrost Units

### 6 FPI

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* E = Electric defrost  
G = Hot gas defrost - Reverse cycle  
H = Hot gas defrost - Re-evap
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**Electric & Hot Gas Defrost Units**

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## ELECTRICAL DATA

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### Electric & Hot Gas Defrost Units

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#### 50 Hertz Applications:
- 208–230 volt units are suitable for 50 Hz voltage from 187–220.
- Contact factory if jobsite voltage is beyond that range.
- 50 Hz motor watts = 60 Hz. motor watts x 0.83

### Electric Defrost Only

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#### Watts

- E = Electric defrost
- G = Hot gas defrost - Reverse cycle
- H = Hot gas defrost - Re-evap
- † Hot Gas Defrost Only
**ELECTRICAL DATA**

**Electric Defrost Kits**

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</table>

**Timer**
Initiates the defrost cycle; also acts as an override protection device for defrost termination.

**Auxiliary Switch**
Mounted on the compressor contactor, it prevents the defrost contactor from operating when the compressor is energized.

**Block-out Relay**
Serves the same function as the auxiliary switch, except used when a defrost contactor is not required (single phase only).

**Fan Contactor**
Used with 460V motors or when 230V motors are wired for three phase operation.

**Defrost Contactor**
Carries the amperage load for the heaters circuit. Contactor selection is based upon the maximum resistive load rating of the contactor.

**Sequencing Relays**
Provides interconnection of multiple unit coolers and a single compressor system. This allows each unit cooler to individually terminate defrost on temperature.
WITT reserves the right to make design changes and modifications to its products without notice.

**DIMENSIONAL DATA**

<table>
<thead>
<tr>
<th>Electric &amp; Hot Gas Defrost Model</th>
<th>Air Defrost Model</th>
<th>Dimensions in Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defrost</td>
<td>IF*</td>
<td>W  A  B  C  D  E  F  G†</td>
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<td>24-105  26-130</td>
<td>24-126  26-145</td>
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<td>34-510  36-520</td>
<td>34-585  36-620</td>
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</table>

*E = Electric defrost  G = Hot gas defrost - Reverse cycle  H = Hot gas defrost - Re-evap

† Models with no "G" dimension have only two hangers. See dimension "A" for hanger spacing.

Note: All dimensions in inches. 3/4" MPT drain connections on all units.