



Inter-Flo

# Medium Profile Unit Cooler

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

**Walk-In  
Coolers & Freezers**

**Medium to Large  
Applications**



## Features

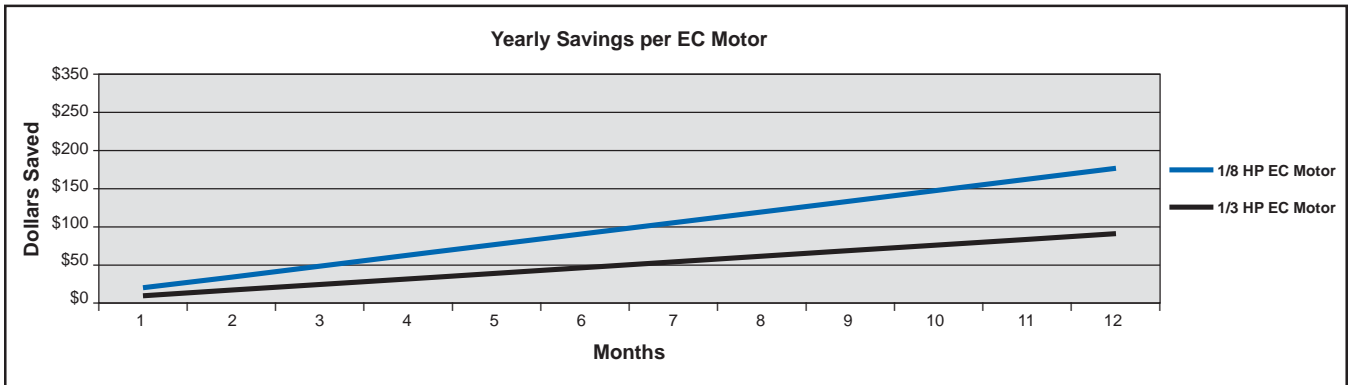
- **APPLICATIONS** — Inter-Flo unit coolers are ideally suited for a wide range of coolers and freezers. IFA models are designed for use in coolers above 35°F. IFE, IFG, and IFH units are suited for 35°F coolers, when mechanical defrosts are required, as well as for freezers with temperatures ranging down to -30°F.
- **SIZES** — There are 37 models offered, with capacities from 10,500 BTUH up to 69,000 BTUH @ 10°TD. Air flow ranges from 3,320 CFM to 9,130 CFM.
- **HOUSING** — Each unit is constructed with a rust-free, heavy gauge, textured, aluminum housing which is light weight yet extremely durable. Air and electric defrost models have hinged drain pans to allow for convenient servicing and maintenance (Hot Gas drain pans are not hinged). Slotted hangers are provided on all units 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-Flos can also be used with chilled water or glycol solutions, contact 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 when required.
- **MOTORS** — PSC-Permanent Split Capacitor or EC-Electronically Commutated, 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** — Available in 115V/1, 208/230/1, 208/230/3, 460/1 or 460/3. Inter-Flos can also be operated on 220/1/50, 220/3/50, 380/1/50 and 380/3/50 power. All components are factory wired to convenient screw type terminal blocks. A large compartment is supplied for all electrical components and is easily accessible by removing the end panel.
- **AIR DEFROST** — Available on IFA series only, for use in coolers at +35°F and above. Complete air defrost systems are available from Witt.
- **ELECTRIC DEFROST** — These units are available as IFE models. The placement of heaters within the refrigeration coil allows for 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. Separate, 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. Timer and contactors are available as options. Complete electric defrost systems are available from Witt. Contact the factory for details.
- **HOT GAS RE-EVAP DEFROST** — Available on all but the IFA models. 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, thus eliminating the need for electric heat and additional wiring. A heat exchanger/re-evaporator is supplied with every unit.
- **HOT GAS REVERSE CYCLE DEFROST** — Available on all but the ITA models. 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, thus eliminating the need for electric heat and additional wiring.
- **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. Medium profile unit coolers will throw air up to 50 feet under ideal conditions, 60 to 70 feet with air straighteners.

## Energy Savings per Motor

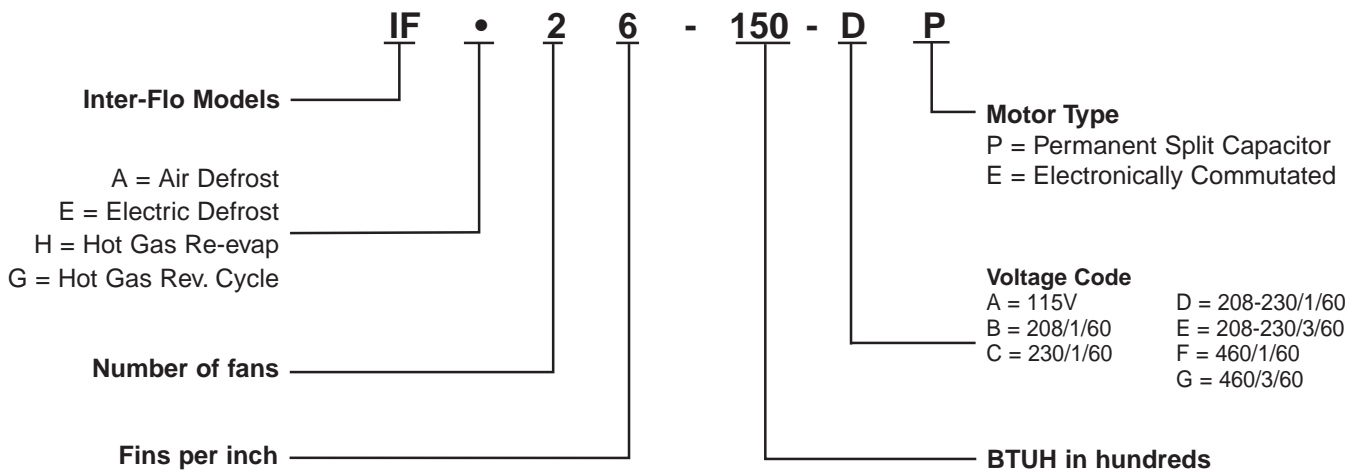
by Changing to More Efficient Unit Cooler Motors (based on Energy Cost of \$0.10 per kWh)

| Motor HP and RPM | Standard PSC Motor Input Power Watts/Mtr | Optional EC Motor Input Power Watts/Mtr | Reduced Power Consumption Watts/Mtr | Run Time Hrs/Day | Motor Energy Savings kWh/Yr | Motor Energy Savings \$/Yr | Reduced Box Load MBTU/Yr | Cond. Unit Energy Savings kWh/Yr | Cond. Unit Energy Savings \$/Yr | Yearly Savings \$/Motor | Pay-back Yrs |
|------------------|--|---|-------------------------------------|------------------|-----------------------------|----------------------------|--------------------------|----------------------------------|---------------------------------|-------------------------|--------------|
| 1/8 1075         | 141                                      | 70                                      | 71                                  | 22               | 570                         | 57                         | 1,945                    | 374                              | 37                              | 94                      | 1.5          |
| 1/3 1075         | 357                                      | 225                                     | 132                                 | 22               | 1060                        | 106                        | 3,617                    | 695                              | 70                              | 176                     | 0.9          |

Subtract 6% from total savings for medium temperature 24 run hours per day.



### MODEL NUMBER NOMENCLATURE



## PERFORMANCE DATA

| C<br>O<br>O<br>L<br>E<br>R<br><br>8<br>F<br>P<br>I | MODEL NUMBER | CFM   | BTUH +25°F |
|--|--------------|-------|------------|
|  | IFA28-151    | 3530  | 15100      |
|  | IFA28-210    | 3320  | 21000      |
|  | IFA38-260    | 5300  | 26000      |
|  | IFA38-320    | 4750  | 32000      |
|  | IFA28-410    | 5250  | 41000      |
|  | IFA28-450    | 5020  | 45000      |
|  | IFA38-540    | 8250  | 54000      |
| IFA38-690  | 7470         | 69000 |            |

| C<br>O<br>O<br>L<br>E<br>R<br><br>6<br>F<br>P<br>I | MODEL NUMBER | CFM   | BTUH +25°F |
|--|--------------|-------|------------|
|  | IFA26-145    | 3680  | 14500      |
|  | IFA26-191    | 3470  | 19100      |
|  | IFA36-240    | 5510  | 24000      |
|  | IFA36-305    | 4960  | 30500      |
|  | IFA26-370    | 5460  | 37000      |
|  | IFA36-415    | 8620  | 41500      |
|  | IFA36-490    | 8580  | 49000      |
| IFA36-620  | 7770         | 62000 |            |

| C<br>O<br>O<br>L<br>E<br>R<br><br>4<br>F<br>P<br>I | MODEL NUMBER | CFM   | BTUH +25°F |
|--|--------------|-------|------------|
|  | IFA24-126    | 3830  | 12600      |
|  | IFA24-169    | 3620  | 16900      |
|  | IFA34-224    | 5750  | 22400      |
|  | IFA34-287    | 5200  | 28700      |
|  | IFA24-340    | 5710  | 34000      |
|  | IFA24-395    | 5430  | 39500      |
|  | IFA34-465    | 8990  | 46500      |
| IFA34-585  | 8140         | 58500 |            |

| F<br>R<br>E<br>E<br>Z<br>E<br>R<br><br>6<br>F<br>P<br>I | MODEL NUMBER | CFM   | CAPACITY BTUH @ 10°TD (R404A, R22) |       |       |       |       |
|---|--------------|-------|------------------------------------|-------|-------|-------|-------|
|   |              |       | -30°F                              | -20°F | -10°F | +10°F | +25°F |
|   | IF*26-130    | 3780  | 12400                              | 13000 | 13600 | 14200 | 15000 |
|   | IF*26-150    | 3470  | 14300                              | 15000 | 15600 | 17000 | 19100 |
|   | IF*36-185    | 5510  | 17600                              | 18500 | 19300 | 21000 | 24000 |
|   | IF*26-270    | 5720  | 25700                              | 27000 | 28100 | 29200 | 30500 |
|   | IF*26-320    | 5480  | 30500                              | 32000 | 33300 | 35600 | 37000 |
|   | IF*36-385    | 9130  | 36700                              | 38500 | 40100 | 43600 | 49000 |
| IF*36-460   | 9090         | 43800 | 46000                              | 47900 | 52000 | 54800 |       |
| IF*36-520   | 8190         | 49500 | 52000                              | 54100 | 58800 | 62000 |       |

| F<br>R<br>E<br>E<br>Z<br>E<br>R<br><br>4<br>F<br>P<br>I | MODEL NUMBER | CFM   | CAPACITY BTUH @ 10°TD (R404A, R22) |       |       |       |       |
|---|--------------|-------|------------------------------------|-------|-------|-------|-------|
|   |              |       | -30°F                              | -20°F | -10°F | +10°F | +25°F |
|   | IF*24-105    | 3940  | 10000                              | 10500 | 11100 | 11700 | 12600 |
|   | IF*24-140    | 3620  | 13400                              | 14000 | 14600 | 15900 | 16900 |
|   | IF*34-175    | 5750  | 16700                              | 17500 | 18200 | 19800 | 22400 |
|   | IF*24-230    | 5930  | 21900                              | 23000 | 24000 | 26000 | 28700 |
|   | IF*24-325    | 5430  | 31000                              | 32500 | 33800 | 36800 | 40100 |
|   | IF*34-390    | 8990  | 37100                              | 39000 | 40600 | 44100 | 46000 |
| IF*34-510   | 8150         | 48600 | 51000                              | 53100 | 57700 | 58500 |       |

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

For 50HZ applications, multiply BTUH capacity by .94 correction factor.

## PHYSICAL DATA

|                            | MODEL NUMBER | FAN DIA. (in) | MOTOR DATA |     |      | OPTIONAL HEAT EXCH (UNMTD.) | RE-EVAP HEAT EXCH (UNMTD.) | CONNECTIONS (in.) |             |          |           | SHIP WT (lbs) |
|----------------------------|--------------|---------------|------------|-----|------|-----------------------------|----------------------------|-------------------|-------------|----------|-----------|---------------|
|                            |              |               | QTY.       | HP  | RPM  |                             |                            | LIQUID ODS        | SUCTION ODS | H.G. ODS | DRAIN MPT |               |
| C<br>O<br>O<br>L<br>E<br>R | IFA28-151    | 14            | 2          | 1/8 | 1050 | RXH150                      | N/A                        | 1/2               | 7/8         | N/A      | 3/4       | 125           |
|                            | IFA28-210    | 14            | 2          | 1/8 | 1050 | RXH150                      | N/A                        | 1/2               | 7/8         | N/A      | 3/4       | 145           |
|                            | IFA38-260    | 14            | 3          | 1/8 | 1050 | RXH250                      | N/A                        | 1/2               | 1 1/8       | N/A      | 3/4       | 295           |
|                            | IFA38-320    | 14            | 3          | 1/8 | 1050 | RXH250                      | N/A                        | 1/2               | 1 1/8       | N/A      | 3/4       | 330           |
|                            | IFA28-410    | 20            | 2          | 1/3 | 1075 | RXH250                      | N/A                        | 7/8               | 1 1/8       | N/A      | 3/4       | 370           |
|                            | IFA28-450    | 20            | 2          | 1/3 | 1075 | RXH250                      | N/A                        | 7/8               | 1 3/8       | N/A      | 3/4       | 390           |
|                            | IFA38-540    | 20            | 3          | 1/3 | 1075 | RXH350                      | N/A                        | 7/8               | 1 3/8       | N/A      | 3/4       | 430           |
|                            | IFA38-690    | 20            | 3          | 1/3 | 1075 | RXH350                      | N/A                        | 7/8               | 1 3/8       | N/A      | 3/4       | 540           |

|                            |           |    |   |     |      |        |     |     |       |     |     |     |
|----------------------------|-----------|----|---|-----|------|--------|-----|-----|-------|-----|-----|-----|
| C<br>O<br>O<br>L<br>E<br>R | IFA26-145 | 14 | 2 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 120 |
|                            | IFA26-191 | 14 | 2 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 140 |
|                            | IFA36-240 | 14 | 3 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 290 |
|                            | IFA36-305 | 14 | 3 | 1/8 | 1050 | RXH250 | N/A | 1/2 | 1 1/8 | N/A | 3/4 | 320 |
|                            | IFA26-370 | 20 | 2 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 1/8 | N/A | 3/4 | 360 |
|                            | IFA36-415 | 20 | 3 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 1/8 | N/A | 3/4 | 395 |
|                            | IFA36-490 | 20 | 3 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 3/8 | N/A | 3/4 | 415 |
|                            | IFA36-620 | 20 | 3 | 1/3 | 1075 | RXH350 | N/A | 7/8 | 1 3/8 | N/A | 3/4 | 520 |

|                            |           |    |   |     |      |        |     |     |       |     |     |     |
|----------------------------|-----------|----|---|-----|------|--------|-----|-----|-------|-----|-----|-----|
| C<br>O<br>O<br>L<br>E<br>R | IFA24-126 | 14 | 2 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 115 |
|                            | IFA24-169 | 14 | 2 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 130 |
|                            | IFA34-224 | 14 | 3 | 1/8 | 1050 | RXH150 | N/A | 1/2 | 7/8   | N/A | 3/4 | 280 |
|                            | IFA34-287 | 14 | 3 | 1/8 | 1050 | RXH250 | N/A | 1/2 | 1 1/8 | N/A | 3/4 | 310 |
|                            | IFA24-340 | 20 | 2 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 1/8 | N/A | 3/4 | 345 |
|                            | IFA24-395 | 20 | 2 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 1/8 | N/A | 3/4 | 375 |
|                            | IFA34-465 | 20 | 3 | 1/3 | 1075 | RXH250 | N/A | 7/8 | 1 3/8 | N/A | 3/4 | 400 |
|                            | IFA34-585 | 20 | 3 | 1/3 | 1075 | RXH350 | N/A | 7/8 | 1 3/8 | N/A | 3/4 | 505 |

|                                 |           |    |   |     |      |        |       |     |       |     |     |     |
|---------------------------------|-----------|----|---|-----|------|--------|-------|-----|-------|-----|-----|-----|
| F<br>R<br>E<br>E<br>Z<br>E<br>R | IF*26-130 | 14 | 2 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 125 |
|                                 | IF*26-150 | 14 | 2 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 140 |
|                                 | IF*36-185 | 14 | 3 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 295 |
|                                 | IF*26-270 | 20 | 2 | 1/3 | 1075 | RXH250 | HEA4A | 1/2 | 1 3/8 | 7/8 | 3/4 | 320 |
|                                 | IF*26-320 | 20 | 2 | 1/3 | 1075 | RXH350 | HEA4A | 7/8 | 1 3/8 | 7/8 | 3/4 | 365 |
|                                 | IF*36-385 | 20 | 3 | 1/3 | 1075 | RXH350 | HEA4A | 7/8 | 1 5/8 | 7/8 | 3/4 | 450 |
|                                 | IF*36-460 | 20 | 3 | 1/3 | 1075 | RXH500 | HEA5A | 7/8 | 1 5/8 | 7/8 | 3/4 | 490 |
|                                 | IF*36-520 | 20 | 3 | 1/3 | 1075 | RXH500 | HEA5A | 7/8 | 1 5/8 | 7/8 | 3/4 | 535 |

|                                 |           |    |   |     |      |        |       |     |       |     |     |     |
|---------------------------------|-----------|----|---|-----|------|--------|-------|-----|-------|-----|-----|-----|
| F<br>R<br>E<br>E<br>Z<br>E<br>R | IF*24-105 | 14 | 2 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 120 |
|                                 | IF*24-140 | 14 | 2 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 135 |
|                                 | IF*34-175 | 14 | 3 | 1/8 | 1050 | RXH150 | HEA3A | 1/2 | 1 1/8 | 7/8 | 3/4 | 285 |
|                                 | IF*24-230 | 20 | 2 | 1/3 | 1075 | RXH250 | HEA4A | 1/2 | 1 3/8 | 7/8 | 3/4 | 315 |
|                                 | IF*24-325 | 20 | 2 | 1/3 | 1075 | RXH350 | HEA4A | 7/8 | 1 3/8 | 7/8 | 3/4 | 350 |
|                                 | IF*34-390 | 20 | 3 | 1/3 | 1075 | RXH350 | HEA4A | 7/8 | 1 5/8 | 7/8 | 3/4 | 435 |
|                                 | IF*34-510 | 20 | 3 | 1/3 | 1075 | RXH500 | HEA5A | 7/8 | 1 5/8 | 7/8 | 3/4 | 530 |

\* E = Electric defrost      G = Hot Gas Defrost: reverse cycle      H = Hot Gas Defrost: re-evap



## ELECTRICAL DATA

## TOTAL MOTOR AMPS - 60 HZ

|                  | Model Number | PSC - Permanent Split Capacitor |            |        | Motor Watts | EC - Electronically Commutated |            | Motor Watts |
|------------------|--------------|---------------------------------|------------|--------|-------------|--------------------------------|------------|-------------|
|                  |              | 115 V†                          | 208/230V/1 | 460V/1 |             | 115V                           | 208/230V/1 |             |
| 8<br>F<br>P<br>I | IFA28-151    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA28-210    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA38-260    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA38-320    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA28-410    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IFA28-450    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IFA38-540    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IFA38-690    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
| 6<br>F<br>P<br>I | IFA26-145    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA26-191    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA36-240    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA36-305    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA26-370    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IFA36-415    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IFA36-490    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IFA36-620    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
| 4<br>F<br>P<br>I | IFA24-126    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA24-169    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IFA34-224    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA34-287    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IFA24-340    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IFA24-395    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IFA34-365    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IFA34-585    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
| 6<br>F<br>P<br>I | IF*26-130    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IF*26-150    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IF*36-185    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IF*26-270    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IF*26-320    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IF*36-385    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IF*36-460    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IF*36-520    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
| 4<br>F<br>P<br>I | IF*24-105    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IF*24-140    | 4.0                             | 1.8        | 1.0    | 282         | 2.4                            | 1.2        | 140         |
|                  | IF*34-175    | 6.0                             | 2.7        | 1.5    | 423         | 3.6                            | 1.8        | 210         |
|                  | IF*24-230    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IF*24-325    | 14.2                            | 6.4        | 2.6    | 714         | 6.0                            | 4.2        | 450         |
|                  | IF*34-390    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |
|                  | IF*34-510    | 21.3                            | 9.6        | 3.9    | 1071        | 9.0                            | 6.3        | 675         |

\* A = Air defrost    E = Electric defrost    G = Hot gas defrost:- Reverse cycle    H = Hot gas defrost: Re-Evap

† Electric defrost models are not available in 115V.

## ELECTRIC HEATER DEFROST AMPS - 60HZ

| MODEL NUMBER | 208 V |      | 230 V |      | 460 V |      | HEATER WATTS | MODEL NUMBER | 208 V |      | 230 V |      | 460 V |      | HEATER WATTS |
|--------------|-------|------|-------|------|-------|------|--------------|--------------|-------|------|-------|------|-------|------|--------------|
|              | 1 PH  | 3 PH | 1 PH  | 3 PH | 1 PH  | 3 PH |              |              | 1 PH  | 3 PH | 1 PH  | 3 PH | 1 PH  | 3 PH |              |
| IFE26-130    | 18.3  | 10.5 | 20.3  | 11.7 | 10.1  | 5.9  | 4685         | IFE24-105    | 18.3  | 10.5 | 20.3  | 11.7 | 10.1  | 5.9  | 4685         |
| IFE26-150    | 18.3  | 10.5 | 20.3  | 11.7 | 10.1  | 5.9  | 4685         | IFE24-140    | 18.3  | 10.5 | 20.3  | 11.7 | 10.1  | 5.9  | 4685         |
| IFE36-185    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         | IFE34-175    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         |
| IFE26-270    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         | IFE24-230    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         |
| IFE26-320    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         | IFE24-325    | N/A   | 15.3 | N/A   | 17.0 | 14.7  | 8.5  | 6774         |
| IFE36-385    | N/A   | 22.1 | N/A   | 24.5 | 21.2  | 12.2 | 9747         | IFE34-390    | N/A   | 22.1 | N/A   | 24.5 | 21.2  | 12.2 | 9747         |
| IFE36-460    | N/A   | 22.1 | N/A   | 24.5 | 21.2  | 12.2 | 9747         | IFE34-510    | N/A   | 22.1 | N/A   | 24.5 | 21.2  | 12.2 | 9747         |
| IFE36-520    | N/A   | 22.1 | N/A   | 24.5 | 21.2  | 12.2 | 9747         |              |       |      |       |      |       |      |              |

## ELECTRIC DEFROST KITS

| 4 F P I | MODEL NUMBER | 1 EVAPORATOR |       |       |       | 2 EVAPORATORS |       |       |       | 3 EVAPORATORS |       |       |       |
|---------|--------------|--------------|-------|-------|-------|---------------|-------|-------|-------|---------------|-------|-------|-------|
|         |              | 230/1        | 230/3 | 460/1 | 460/3 | 230/1         | 230/3 | 460/1 | 460/3 | 230/1         | 230/3 | 460/1 | 460/3 |
|         | IFE24-105    | ED-10        | ED-11 | ED-12 | ED-12 | ED-23         | ED-21 | ED-22 | ED-22 | ED-35         | ED-33 | ED-34 | ED-32 |
|         | IFE24-140    | ED-10        | ED-11 | ED-12 | ED-12 | ED-23         | ED-21 | ED-22 | ED-22 | ED-35         | ED-33 | ED-34 | ED-32 |
|         | IFE34-175    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE24-230    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE24-325    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE34-390    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-24 | ED-22 | ED-37         | ED-35 | ED-36 | ED-34 |
|         | IFE34-510    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-24 | ED-22 | ED-37         | ED-35 | ED-36 | ED-34 |

| 6 F P I | MODEL NUMBER | 1 EVAPORATOR |       |       |       | 2 EVAPORATORS |       |       |       | 3 EVAPORATORS |       |       |       |
|---------|--------------|--------------|-------|-------|-------|---------------|-------|-------|-------|---------------|-------|-------|-------|
|         |              | 230/1        | 230/3 | 460/1 | 460/3 | 230/1         | 230/3 | 460/1 | 460/3 | 230/1         | 230/3 | 460/1 | 460/3 |
|         | IFE26-130    | ED-10        | ED-11 | ED-12 | ED-12 | ED-23         | ED-21 | ED-22 | ED-22 | ED-35         | ED-33 | ED-34 | ED-32 |
|         | IFE26-150    | ED-10        | ED-11 | ED-12 | ED-12 | ED-23         | ED-21 | ED-22 | ED-22 | ED-35         | ED-33 | ED-34 | ED-32 |
|         | IFE36-185    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE26-270    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE26-320    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-22 | ED-22 | ED-35         | ED-35 | ED-34 | ED-32 |
|         | IFE36-385    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-24 | ED-22 | ED-37         | ED-35 | ED-36 | ED-34 |
|         | IFE36-460    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-24 | ED-22 | ED-37         | ED-35 | ED-36 | ED-34 |
|         | IFE36-520    | N/A          | ED-11 | ED-12 | ED-12 | ED-25         | ED-23 | ED-24 | ED-22 | ED-37         | ED-35 | ED-36 | ED-34 |

## ELECTRIC DEFROST KIT COMPONENTS

| MODEL NUMBER | TIMER | AUXILIARY SWITCH | BLOCKOUT RELAY | CONTACTORS |       | SEQUENCING RELAY |
|--------------|-------|------------------|----------------|------------|-------|------------------|
|              |       |                  |                | HEATER     | FAN   |                  |
| ED-10        | 1     | —                | 1-30A          | —          | —     | —                |
| ED-11        | 1     | 1                | —              | 1-30A      | —     | —                |
| ED-12        | 1     | 1                | —              | 1-30A      | 1-25A | —                |
| ED-13        | 1     | 1                | —              | 1-50A      | —     | —                |
| ED-14        | 1     | 1                | —              | 1-50A      | 1-25A | —                |
| ED-15        | 1     | 1                | —              | 2-50A      | —     | —                |
| ED-16        | 1     | 1                | —              | 2-50A      | 1-25  | —                |
| ED-20        | 1     | —                | 1-30A          | —          | —     | 2                |
| ED-21        | 1     | 1                | —              | 2-15A      | —     | 2                |
| ED-22        | 1     | 1                | —              | 2-15A      | 1-25A | 2                |
| ED-23        | 1     | 1                | —              | 2-25A      | —     | 2                |
| ED-24        | 1     | 1                | —              | 2-25A      | 1-25  | 2                |
| ED-25        | 1     | 1                | —              | 2-50A      | —     | 2                |
| ED-26        | 1     | 1                | —              | 2-50A      | 1-25A | 2                |
| ED-27        | 1     | 1                | —              | 2-75A      | —     | 2                |
| ED-28        | 1     | 1                | —              | 2-75A      | 1-25A | 2                |
| ED-30        | 1     | —                | 1-30A          | —          | —     | 3                |
| ED-32        | 1     | 1                | —              | 3-10A      | 1-25A | 3                |
| ED-33        | 1     | 1                | —              | 3-15A      | —     | 3                |
| ED-34        | 1     | 1                | —              | 3-15A      | 1-25A | 3                |
| ED-35        | 1     | 1                | —              | 3-30A      | —     | 3                |
| ED-36        | 1     | 1                | —              | 3-30A      | 1-25A | 3                |
| ED-37        | 1     | 1                | —              | 3-50A      | —     | 3                |
| ED-38        | 1     | 1                | —              | 3-50A      | 1-25A | 3                |

**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 heater circuit. Contactor selection is based upon the maximum resistive load rating of the contactor.

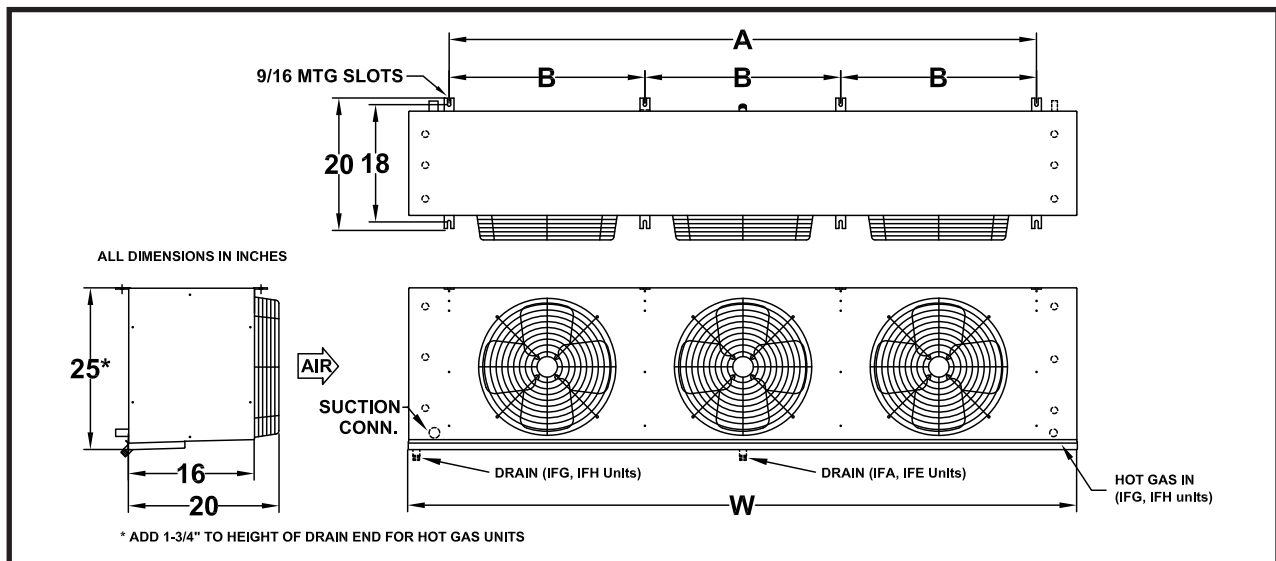
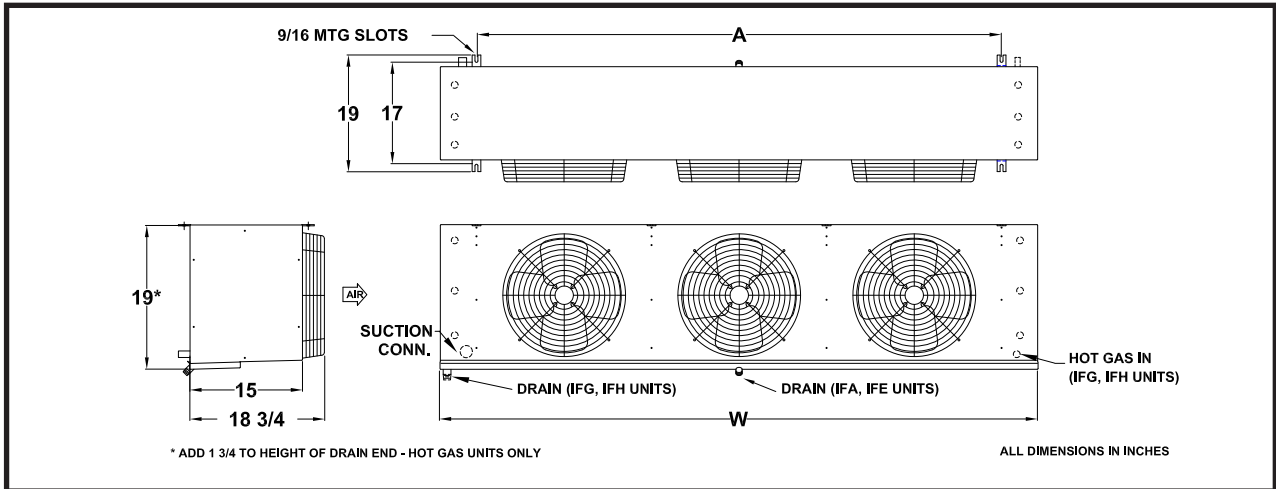
**Sequencing Relay**

Provides interconnection of multiple unit coolers an a single compressor system. This allows each unit cooler to individually terminate defrost on temperature.

## Specifications - Air Defrost Models

| ELECTRIC AND HOT GAS DEFOST |           | AIR DEFOST MODELS |           |           | FIG. | DIMENSIONS |    |        |
|-----------------------------|-----------|-------------------|-----------|-----------|------|------------|----|--------|
|                             |           |                   |           |           |      | W          | A  | B      |
| IF*24-105                   | IF*26-130 | IFA24-126         | IFA26-145 | IFA28-151 | 1    | 55         | 42 | —      |
| IF*24-140                   | IF*26-150 | IFA24-169         | IFA26-191 | IFA28-210 | 1    | 55         | 42 | —      |
| IF*34-175                   | IF*36-185 | IFA34-224         | IFA36-240 | IFA38-260 | 1    | 76         | 63 | —      |
| —                           | —         | IFA34-287         | IFA36-305 | IFA38-320 | 1    | 76         | 63 | —      |
| IF*24-230                   | IF*26-270 | IFA24-340         | IFA26-370 | IFA28-410 | 2    | 76         | 63 | 31-1/2 |
| IF*24-325                   | IF*26-320 | IFA24-395         | —         | IFA28-450 | 2    | 76         | 63 | 31-1/2 |
| —                           | IF*36-385 | —                 | IFA36-415 | —         | 2    | 106        | 93 | 31     |
| IF*34-390                   | IF*36-460 | IFA34-455         | IFA36-490 | IFA38-540 | 2    | 106        | 93 | 31     |
| IF*34-510                   | IF*36-520 | IFA34-585         | IFA36-620 | IFA38-690 | 2    | 106        | 93 | 31     |

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



Due to continuing product development, specifications are subject to change without notice.

