

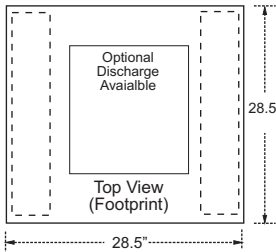
# Technical Specifications

Geoflex Dehumidification System  
Model 030 - 410A - Top Discharge

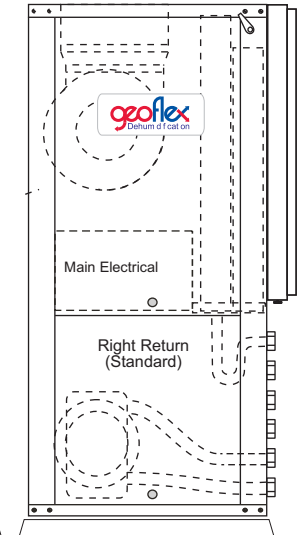
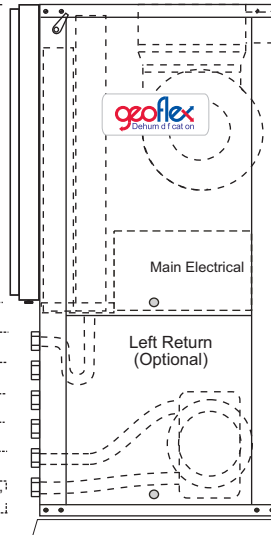
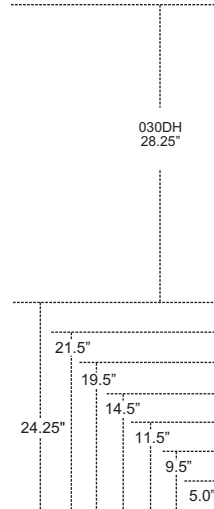
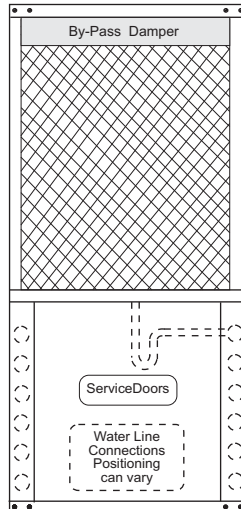
| Available Options  |
|--|
| Straight Thru, Top or Bottom Air Discharge                     |
| Pumps can be Built-in, pre-wired, pre-fused & pre-controlled   |
| Partial Hot Water(s) c/w Internal Pump & High Limit Switch     |
| Demand Hot Water(s) c/w Internal Pump, if required             |
| 10, 15, 20K Back-up/emergency heater available                 |
| Web Based Monitoring System                                    |
| Flexible Orientation, air discharge, water connections         |
| Diagnostic LED Function Light Array                            |
| K-Type ThermoProbes for simpler in field diagnostics           |
| External DX Condensor  |
| 100% Internal Water Condensor                                  |
| Proportional or 100% Water Reheat Systems                      |
| Cupronickel and Double Wall Vented Coils for specialized apps. |

| Elements                       |                              |
|--------------------------------|------------------------------|
| Description                    | Type                         |
| Refrigerant                    | R410A                        |
| Base Unit Refrigerant Charge   | 10° F Superheat on Base Unit |
| Compressor                     | Scroll                       |
| Blower                         | Direct Drive                 |
| Air Coil Coating               | Baked Acrylic Process        |
| Condensate Pan                 | Anti-Corrosion Coated        |
| Internal Air Reheat Condensor  | DX                           |
| Optional Pool Reheat Condensor | Co-axial                     |
| Optional Water Condensor       | Co-Axial                     |
| Base Unit Weight               |                              |
| Base Unit Shipping Weight      |                              |

| Standard Features       |  |
|-------------------------|--|
| Internal Piping         | All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation              |
| Air Coils               | Air Coils and internal components are coated and baked with an Acrylic Coating                             |
| Low Noise Package       | 1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential. |
| Electronic Diagnostics  | On board fault Diagnostics   |
| Cabinet                 | A Separator Plate is used between the Air and Refrigeration Section  |
| Service & Maintenance   | Service Doors Surround System  |
| Refrigeration Section   | An Internal Negative Pressure Port is incorporated to Reduce Heat or Condensation Build-up.                |
| Service Switches        | Independant, Low & High Pressure & Low Flow c/w HP & LP Memory   |
| Freon Service           | Bi-flow Filter/Drier & Moisture Indicating Sight Glass   |
| Evaporator Construction | All Evaporator Coils are Insulated to avoid Condensation Rusting   |
| Field Adaption          | Designed to maximize field adaptability<br>Field Positionable Condensate Line                              |



- Geoflex Advanced Dehumidification Systems
- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
  - Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
  - Can be ordered/designed to exact project retrofit or new design match with a myriad of options.



| 410A Single Step Dehumidification Performance Data |                |      |             |                         |                       |                     |                         |                       |                     |                         |                       |                     |                     |
|--|----------------|------|-------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|---------------------|
| Model  | Fan Motor Type | Spd  | Air Temp °F | RH 50%                  |                       |                     | RH 55%                  |                       |                     | RH 60%                  |                       |                     | Flow Indoor Air CFM |
|  |                |      |             | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh |                     |
| 030  | PSC            | Full | 80          | 8.2                     | 17,730                | 26,254              | 9.0                     | 16,953                | 26,602              | 10.8                    | 16,698                | 27,538              | 1,000               |
|  | PSC            | Full | 82          | 8.5                     | 17,210                | 25,639              | 10.3                    | 16,572                | 26,129              | 11.2                    | 16,071                | 26,721              |                     |
|  | PSC            | Full | 84          | 10.4                    | 16,698                | 25,035              | 12.5                    | 16,133                | 25,584              | 13.7                    | 15,579                | 26,080              |                     |

| Single Step, 410A Electrical Data |              |              |                 |            |      |      |              |                          |                          |                |                  |               |             |            |
|-----------------------------------|--------------|--------------|-----------------|------------|------|------|--------------|--------------------------|--------------------------|----------------|------------------|---------------|-------------|------------|
| Model                             | Voltage Code | Voltage      | Min/Max Voltage | Compressor |      |      | HWG Pump FLA | Ext/Int Loop Pump(s) FLA | Ext/Int Product Pump FLA | Total Unit FLA | Min Circuit Amps | Max Fuse/HACR | Supply Wire |            |
|                                   |              |              |                 | RLA        | LRA  | LRA* |              |                          |                          |                |                  |               | Min AWG     | Max Ft (M) |
| 30                                | A            | 208-230/60/1 | 197/254         | 12.8       | 64.0 | 22.5 | 0.41         | 0.9                      | 0.9                      | 15.0           | 18.0             | 30            | 12          | 88 (26.8)  |
|                                   | C            | 208-230/60/3 | 197/254         | 8.3        | 58.0 |      |              |                          |                          | 8.3            | 10.0             | 15            | 14          | 119 (36.3) |
|                                   | D            | 460/60/3     | 414/506         | 5.1        | 28.0 |      |              |                          |                          | 5.1            | 6.2              | 10            | 14          | 238 (72.6) |
|                                   | E            | 575/60/3     | 518/633         | 3.3        | 23.7 |      |              |                          |                          | 3.3            | 4.0              | 10            | 14          | 295 (90.0) |

**Notes:** LRA\* estimated with optional "Secure Start" installed (208-230/60/1)  
HACR circuit breaker in USA only All fuses Class RK-5

Wire length based on higher if 2 voltages, one way 2.0% voltage drop  
Wire size based on 60°C copper conductor & minimum circuit ampacity



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**Plant Office:**  
517 McCormick Blvd., London, Ontario N5W 4C8  
Phone: 519.488.1653 Fax: 519.913.1259  
Email: plant@geoflexsystems.com

**Administration Office:**  
#1, 301 Pakwa Pl., Saskatoon, Sk, S7L 6A3  
Phone: 306.668.0090 Fax: 306.668.0049  
Email: admin@geoflexsystems.com

[www.geoflexsystems.com](http://www.geoflexsystems.com)

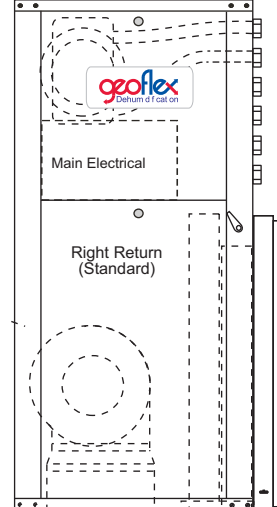
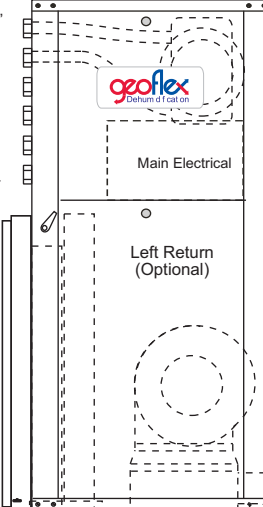
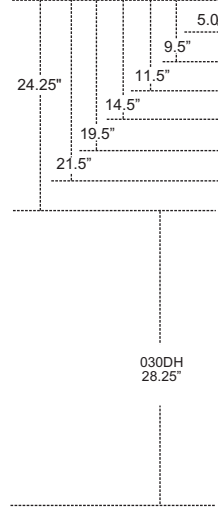
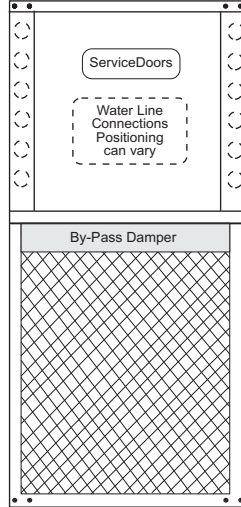
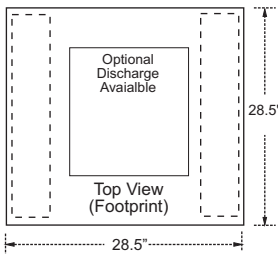
# Technical Specifications

Geoflex Dehumidification System  
Model 030 - 410A - Bottom Discharge

| Available Options  |
|--|
| Straight Thru, Top or Bottom Air Discharge                     |
| Pumps can be Built-in, pre-wired, pre-fused & pre-controlled   |
| Partial Hot Water(s) c/w Internal Pump & High Limit Switch     |
| Demand Hot Water(s) c/w Internal Pump, if required             |
| 10, 15, 20K Back-up/emergency heater available                 |
| Web Based Monitoring System                                    |
| Flexible Orientation, air discharge, water connections         |
| Diagnostic LED Function Light Array                            |
| K-Type ThermoProbes for simpler in field diagnostics           |
| External DX Condensor  |
| 100% Internal Water Condensor                                  |
| Proportional or 100% Water Reheat Systems                      |
| Cupronickel and Double Wall Vented Coils for specialized apps. |

| Elements                       |                              |
|--------------------------------|------------------------------|
| Description                    | Type                         |
| Refrigerant                    | R410A                        |
| Base Unit Refrigerant Charge   | 10° F Superheat on Base Unit |
| Compressor                     | Scroll                       |
| Blower                         | Direct Drive                 |
| Air Coil Coating               | Baked Acrylic Process        |
| Condensate Pan                 | Anti-Corrosion Coated        |
| Internal Air Reheat Condensor  | DX                           |
| Optional Pool Reheat Condensor | Co-axial                     |
| Optional Water Condensor       | Co-Axial                     |
| Base Unit Weight               |                              |
| Base Unit Shipping Weight      |                              |

| Standard Features       |  |
|-------------------------|--|
| Internal Piping         | All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation              |
| Air Coils               | Air Coils and internal components are coated and baked with an Acrylic Coating                             |
| Low Noise Package       | 1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential. |
| Electronic Diagnostics  | On board fault Diagnostics   |
| Cabinet                 | A Separator Plate is used between the Air and Refrigeration Section  |
| Service & Maintenance   | Service Doors Surround System  |
| Refrigeration Section   | An Internal Negative Pressure Port is incorporated to Reduce Heat or Condensation Build-up.                |
| Service Switches        | Independant, Low & High Pressure & Low Flow c/w HP & LP Memory   |
| Freon Service           | Bi-flow Filter/Drier & Moisture Indicating Sight Glass   |
| Evaporator Construction | All Evaporator Coils are Insulated to avoid Condensation Rusting   |
| Field Adaption          | Designed to maximize field adaptability<br>Field Positionable Condensate Line                              |



- Geoflex Advanced Dehumidification Systems
- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
  - Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
  - Can be ordered/designed to exact project retrofit or new design match with a myriad of options.

| 410A Single Step Dehumidification Performance Data |                |      |             |                         |                       |                     |                         |                       |                     |                         |                       |                     |                     |
|--|----------------|------|-------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|---------------------|
| Model  | Fan Motor Type | Spd  | Air Temp °F | RH 50%                  |                       |                     | RH 55%                  |                       |                     | RH 60%                  |                       |                     | Flow Indoor Air CFM |
|  |                |      |             | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh |                     |
| 030  | PSC            | Full | 80          | 8.2                     | 17,730                | 26,254              | 9.0                     | 16,953                | 26,602              | 10.8                    | 16,698                | 27,538              | 1,000               |
|  | PSC            | Full | 82          | 8.5                     | 17,210                | 25,639              | 10.3                    | 16,572                | 26,129              | 11.2                    | 16,071                | 26,721              |                     |
|  | PSC            | Full | 84          | 10.4                    | 16,698                | 25,035              | 12.5                    | 16,133                | 25,584              | 13.7                    | 15,579                | 26,080              |                     |

| Single Step, 410A Electrical Data |              |              |                 |            |      |      |              |                          |                          |                |                  |               |             |            |
|-----------------------------------|--------------|--------------|-----------------|------------|------|------|--------------|--------------------------|--------------------------|----------------|------------------|---------------|-------------|------------|
| Model                             | Voltage Code | Voltage      | Min/Max Voltage | Compressor |      |      | HWG Pump FLA | Ext/Int Loop Pump(s) FLA | Ext/Int Product Pump FLA | Total Unit FLA | Min Circuit Amps | Max Fuse/HACR | Supply Wire |            |
|                                   |              |              |                 | RLA        | LRA  | LRA* |              |                          |                          |                |                  |               | Min AWG     | Max Ft (M) |
| 30                                | A            | 208-230/60/1 | 197/254         | 12.8       | 64.0 | 22.5 | 0.41         | 0.9                      | 0.9                      | 15.0           | 18.0             | 30            | 12          | 88 (26.8)  |
|                                   | C            | 208-230/60/3 | 197/254         | 8.3        | 58.0 |      |              |                          |                          | 8.3            | 10.0             | 15            | 14          | 119 (36.3) |
|                                   | D            | 460/60/3     | 414/506         | 5.1        | 28.0 |      |              |                          |                          | 5.1            | 6.2              | 10            | 14          | 238 (72.6) |
|                                   | E            | 575/60/3     | 518/633         | 3.3        | 23.7 |      |              |                          |                          | 3.3            | 4.0              | 10            | 14          | 295 (90.0) |

**Notes:** LRA\* estimated with optional "Secure Start" installed (208-230/60/1)  
HACR circuit breaker in USA only All fuses Class RK-5

Wire length based on higher if 2 voltages, one way 2.0% voltage drop  
Wire size based on 60°C copper conductor & minimum circuit ampacity



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**Plant Office:**  
517 McCormick Blvd., London, Ontario N5W 4C8  
Phone: 519.488.1653 Fax: 519.913.1259  
Email: plant@geoflexsystems.com

**Administration Office:**  
#1, 301 Pakwa Pl., Saskatoon, Sk, S7L 6A3  
Phone: 306.668.0090 Fax: 306.668.0049  
Email: admin@geoflexsystems.com

[www.geoflexsystems.com](http://www.geoflexsystems.com)

# Technical Specifications

Geoflex Dehumidification System  
Model 030 - 410A - Horizontal

| Available Options  |
|--|
| Straight Thru, Top or Bottom Air Discharge                     |
| Pumps can be Built-in, pre-wired, pre-fused & pre-controlled   |
| Partial Hot Water(s) c/w Internal Pump & High Limit Switch     |
| Demand Hot Water(s) c/w Internal Pump, if required             |
| 10, 15, 20K Back-up/emergency heater available                 |
| Web Based Monitoring System                                    |
| Flexible Orientation, air discharge, water connections         |
| Diagnostic LED Function Light Array                            |
| K-Type ThermoProbes for simpler in field diagnostics           |
| External DX Condensor  |
| 100% Internal Water Condensor                                  |
| Proportional or 100% Water Reheat Systems                      |
| Cupronickel and Double Wall Vented Coils for specialized apps. |

| Elements                       |                              |
|--------------------------------|------------------------------|
| Description                    | Type                         |
| Refrigerant                    | R410A                        |
| Base Unit Refrigerant Charge   | 10° F Superheat on Base Unit |
| Compressor                     | Scroll                       |
| Blower                         | Direct Drive                 |
| Air Coil Coating               | Baked Acrylic Process        |
| Condensate Pan                 | Anti-Corrosion Coated        |
| Internal Air Reheat Condensor  | DX                           |
| Optional Pool Reheat Condensor | Co-axial                     |
| Optional Water Condensor       | Co-Axial                     |
| Base Unit Weight               |                              |
| Base Unit Shipping Weight      |                              |

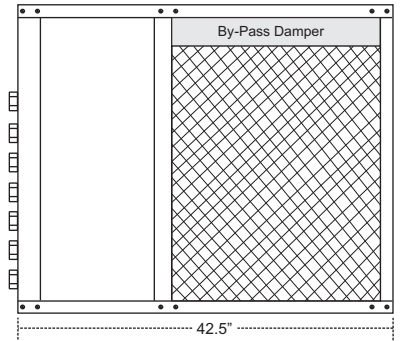
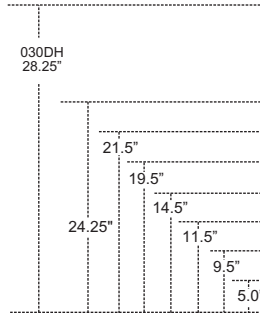
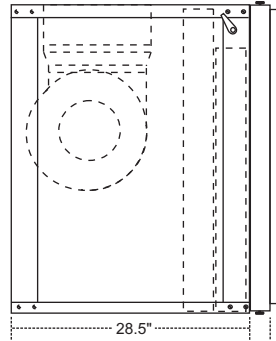
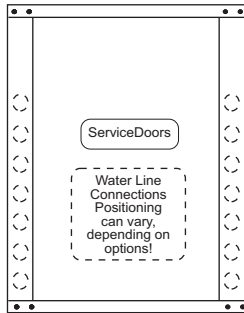
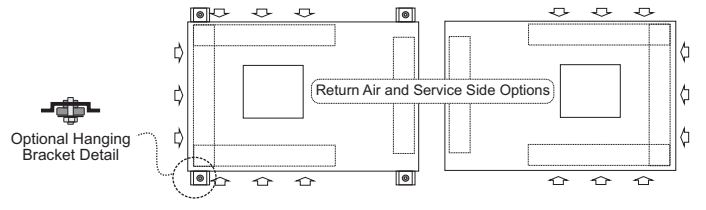
| Standard Features       |  |
|-------------------------|--|
| Internal Piping         | All Internal Refrigeration Piping is Insulated to Reduce Noise and Potential Pipe Degradation              |
| Air Coils               | Air Coils and internal components are coated and baked with an Acrylic Coating                             |
| Low Noise Package       | 1" acoustical insulation & all internal refrigeration lines are fully insulated to reduce noise potential. |
| Electronic Diagnostics  | On board fault Diagnostics   |
| Cabinet                 | A Separator Plate is used between the Air and Refrigeration Section  |
| Service & Maintenance   | Service Doors Surround System  |
| Refrigeration Section   | An Internal Negative Pressure Port is incorporated to Reduce Heat or Condensation Build-up.                |
| Service Switches        | Independant, Low & High Pressure & Low Flow c/w HP & LP Memory   |
| Freon Service           | Bi-flow Filter/Drier & Moisture Indicating Sight Glass   |
| Evaporator Construction | All Evaporator Coils are Insulated to avoid Condensation Rusting   |
| Field Adaption          | Designed to maximize field adaptability<br>Field Positionable Condensate Line                              |

### Geoflex Advanced Dehumidification Systems

- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
- Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
- Can be ordered/Designed to exact project retrofit or new design match with a myriad of options.

### Notes:

- A 6" Space must be left under the system to allow for a condensate drain trap.
- Much consideration must be given to noise, as horizontal units are commonly hung above drop ceilings in office spaces
- Back-up/Emergency Plenum Heaters can be built in with top and bottom discharge, all other discharge options would be built on.



| 410A Single Step Dehumidification Performance Data |                |      |             |                         |                       |                     |                         |                       |                     |                         |                       |                     |                     |
|--|----------------|------|-------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|-------------------------|-----------------------|---------------------|---------------------|
| Model  | Fan Motor Type | Spd  | Air Temp °F | RH 50%                  |                       |                     | RH 55%                  |                       |                     | RH 60%                  |                       |                     | Flow Indoor Air CFM |
|  |                |      |             | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh | Mositure Removal lbs/hr | Sensible Cooling Btuh | Total Capacity Btuh |                     |
| 030  | PSC            | Full | 80          | 8.2                     | 17,730                | 26,254              | 9.0                     | 16,953                | 26,602              | 10.8                    | 16,698                | 27,538              | 1,000               |
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|  | PSC            | Full | 84          | 10.4                    | 16,698                | 25,035              | 12.5                    | 16,133                | 25,584              | 13.7                    | 15,579                | 26,080              |                     |

| Single Step, 410A Electrical Data |              |              |                 |            |      |      |              |                          |                          |                |                  |               |             |            |
|-----------------------------------|--------------|--------------|-----------------|------------|------|------|--------------|--------------------------|--------------------------|----------------|------------------|---------------|-------------|------------|
| Model                             | Voltage Code | Voltage      | Min/Max Voltage | Compressor |      |      | HWG Pump FLA | Ext/Int Loop Pump(s) FLA | Ext/Int Product Pump FLA | Total Unit FLA | Min Circuit Amps | Max Fuse/HACR | Supply Wire |            |
|                                   |              |              |                 | RLA        | LRA  | LRA* |              |                          |                          |                |                  |               | Min AWG     | Max Ft (M) |
| 30                                | A            | 208-230/60/1 | 197/254         | 12.8       | 64.0 | 22.5 | 0.41         | 0.9                      | 0.9                      | 15.0           | 18.0             | 30            | 12          | 88 (26.8)  |
|                                   | C            | 208-230/60/3 | 197/254         | 8.3        | 58.0 |      |              |                          |                          | 8.3            | 10.0             | 15            | 14          | 119 (36.3) |
|                                   | D            | 460/60/3     | 414/506         | 5.1        | 28.0 |      |              |                          |                          | 5.1            | 6.2              | 10            | 14          | 238 (72.6) |
|                                   | E            | 575/60/3     | 518/633         | 3.3        | 23.7 |      |              |                          |                          | 3.3            | 4.0              | 10            | 14          | 295 (90.0) |

**Notes:** LRA\* estimated with optional "Secure Start" installed (208-230/60/1)  
HACR circuit breaker in USA only All fuses Class RK-5

Wire length based on higher if 2 voltages, one way 2.0% voltage drop  
Wire size based on 60°C copper conductor & minimum circuit ampacity



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Email: plant@geoflexsystems.com

**Administration Office:**  
#1, 301 Pakwa Pl., Saskatoon, Sk, S7L 6A3  
Phone: 306.668.0090 Fax: 306.668.0049  
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[www.geoflexsystems.com](http://www.geoflexsystems.com)