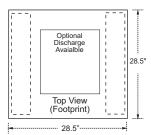
Technical Specifications Geoflex Dehumidification System	Eleme	ents	<u> </u>	Standard Features
Geoflex Dehumidification System Model 036 - 410A - Top Discharge	Description	Туре		All Internal Refrigeration Piping is Insulated to Reduce
	Refrigerant	R410A	Internal Piping	Noise and Potential Pipe Degradation
Available Options	Base Unit Refrigreant	10° F Superheat on	Air Coils	Air Coils and internal components are coated and baked with an Acrylic Coating
Straight Thru, Top or Bottom Air Discharge	Charge	Base Unit	Low Noise	1" acoustical insulation & all internal refrigeration lines are
Pumps can be Built-in, pre-wired, pre-fused & pre-controlled	Compressor	Scroll	Package	fully insulated to reduce noise potential.
Partial Hot Water(s) c/w Internal Pump & High Limit Switch	Blower	Direct Drive	Electronic Diagnostics	On board fault Diagnostics
Demand Hot Water(s) c/w Internal Pump, if required	Air Coil Coating	Baked Acrylic Process	Cabinet	A Seperator Plate is used between the Air and Refrigeration Section
10, 15, 20K Back-up/emergency heater available	Condensate Pan	Anti-Corrosion	Service &	
Web Based Monitoring System	Condensate Part	Coated	Maintenance	Service Doors Surround System
Flexible Orientation, air discharge, water connections	Internal Air Reheat	DX	Refrigeration Section	An Internal Negative Pressure Port is incoprorated to Reduce Heat or Condensation Build-up.
Diagnostic LED Function Light Array	Condensor Optional Pool		Service	Independant, Low & High Pressure & Low Flow c/w
K-Type ThermoProbes for simpler in field diagnostics	Reheat Condensor	Co-axial	Switches	HP & LP Memory
External DX Condensor	Optional Water	Co-Axial	Freon Service	Bi-flow Filter/Drier & Moisture Indicating Sight Glass
100% Internal Water Condensor	Condensor	CO-Aciai	Evaporator	All Evaporator Coils are Insulated to avoid
Proportional or 100% Water Reheat Systems	Base Unit Weight		Construction	Condensation Rusting
	Base Unit		Feild Adaption	Designed to maximumize field adaptability
Cupronickel and Double Wall Vented Coils for specialized apps.	Shipping Weight			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.

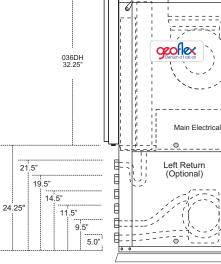
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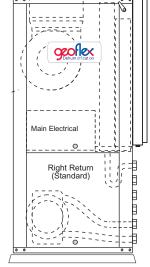
By-Pass Damper

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|       | 410A Single Step Dehumidification Performance Data |      |                   |                               |                             |                           |                               |                             |                           |                               |                             |                           |                      |  |
|-------|----------------------------------------------------|------|-------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|----------------------|--|
|       | <b>F</b>                                           | Spd  | A :               |                               | RH 50%                      |                           |                               | RH 55%                      |                           |                               | Flow                        |                           |                      |  |
| Model | Fan<br>Motor<br>Type                               |      | Air<br>Temp<br>°F | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Indoor<br>Air<br>CFM |  |
|       | PSC                                                | Full | 80                | 8.6                           | 18,585                      | 27,450                    | 9.4                           | 17,771                      | 27,822                    | 11.3                          | 17,505                      | 28,804                    |                      |  |
| 036   | PSC                                                | Full | 82                | 8.9                           | 18,040                      | 26,812                    | 10.7                          | 17,373                      | 27,332                    | 11.7                          | 16,850                      | 27,960                    | 1,200                |  |
|       | PSC                                                | Full | 84                | 10.9                          | 17,505                      | 26,185                    | 13.1                          | 16,915                      | 26,769                    | 14.3                          | 16,336                      | 27,299                    |                      |  |

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|       |         |              |         |            | Sing | le Step, | 410A Ele | ectrical Da | ata |               |                |              |             |     |           |  |
|-------|---------|--------------|---------|------------|------|----------|----------|-------------|-----|---------------|----------------|--------------|-------------|-----|-----------|--|
| Model | Voltage | Voltaga      | Min/Max | Compressor |      |          | Blower   | Blower      |     | Total<br>Unit | Min<br>Circuit | Max<br>Fuse/ | Supply Wire |     |           |  |
| woder | Code    | Voltage      | Voltage | RLA        | LRA  | LRA*     | Нp       | FLA         |     | FLA           | Amps           | HACR         | Min<br>AWG  | Max | ax Ft (M) |  |
|       | А       | 208-230/60/1 | 197/254 | 14.1       | 73.0 | 25.6     | .5       | 3.8         |     | 18.4          | 22.1           | 30           | 12          | 77  | (23.5)    |  |
| 36    | С       | 208-230/60/3 | 197/254 | 8.9        | 58.0 |          | .5       | 2.8         |     | 12.2          | 14.7           | 20           | 14          | 70  | (21.4)    |  |
| 50    | D       | 460/60/3     | 414/506 | 4.2        | 28.0 |          | .5       | 1.3         |     | 6.0           | 7.2            | 10           | 14          | 469 | (143.0)   |  |
|       | E       | 575/60/3     | 518/633 | 3.5        | 24.0 |          | .5       | 1.0         |     | 5.0           | 6.0            | 10           | 14          | 700 | (213.5)   |  |

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 & minumum circuit ampacity



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 N5W 4C8

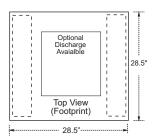
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www.geoflexsystems.com

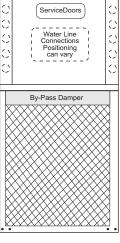
Administration Office: #1, 301 Pakwa Pl., Saskatoon, Sk, S7L 6A3 Phone: 306.668.0090 Fax: 306.668.0049 Email: admin@geoflexsystems.com

| Technical Specifications<br>Geoflex Dehumidification System<br>Model 036 - 410A - Bottom Discharge | Elem                        | ents                  |                          | Standard Features                                                                           |
|----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------------|---------------------------------------------------------------------------------------------|
| Geoflex Dehumidification System                                                                    | Description                 | Туре                  |                          | All Internal Refrigeration Piping is Insulated to Reduce                                    |
| Model 050 - 410A - Bollotti Discharge                                                              | Refrigerant                 | R410A                 | Internal Piping          | Noise and Potential Pipe Degradation                                                        |
| Available Options                                                                                  | Base Unit<br>Refrigreant    | 10° F<br>Superheat on | Air Coils                | Air Coils and internal components are coated and baked with an Acrylic Coating              |
| Straight Thru, Top or Bottom Air Discharge                                                         | Charge                      | Base Unit             | Low Noise                | 1" acoustical insulation & all internal refrigeration lines are                             |
| Pumps can be Built-in, pre-wired, pre-fused & pre-controlled                                       | Compressor                  | Scroll                | Package                  | fully insulated to reduce noise potential.                                                  |
| Partial Hot Water(s) c/w Internal Pump & High Limit Switch                                         | Blower                      | Direct Drive          | Electronic               | On board fault Diagnostics                                                                  |
|                                                                                                    | Air Coil Coating            | Baked Acrylic         | Diagnostics              | -                                                                                           |
| Demand Hot Water(s) c/w Internal Pump, if required                                                 | All Coll Coating            | Process               | Cabinet                  | A Seperator Plate is used between the Air and                                               |
| 10, 15, 20K Back-up/emergency heater available                                                     |                             | Anti-Corrosion        | Service &                | Refrigeration Section                                                                       |
| Web Based Monitoring System                                                                        | Condensate Pan              | Coated                | Maintenance              | Service Doors Surround System                                                               |
| Flexible Orientation, air discharge, water connections                                             | Internal Air<br>Reheat      | DX                    | Refrigeration<br>Section | An Internal Negative Pressure Port is incoprorated to Reduce Heat or Condensation Build-up. |
| Diagnostic LED Function Light Array                                                                | Condensor                   |                       |                          |                                                                                             |
| K-Type ThermoProbes for simpler in field diagnostics                                               | Optional Pool<br>Reheat     | Co-axial              | Service<br>Switches      | Independant, Low & High Pressure & Low Flow c/w<br>HP & LP Memory                           |
| External DX Condensor                                                                              | Condensor<br>Optional Water | Co-Axial              | Freon Service            | Bi-flow Filter/Drier & Moisture Indicating Sight Glass                                      |
| 100% Internal Water Condensor                                                                      | Condensor                   | 00 / Witai            | Evaporator               | All Evaporator Coils are Insulated to avoid                                                 |
| Proportional or 100% Water Reheat Systems                                                          | Base Unit<br>Weight         |                       | Construction             | Condensation Rusting                                                                        |
|                                                                                                    | Base Unit                   |                       | Feild Adaption           | Designed to maximumize field adaptability                                                   |
| Cupronickel and Double Wall Vented Coils for specialized apps.                                     | Shipping Weight             |                       | ····                     | Field Positionable Condensate Line                                                          |



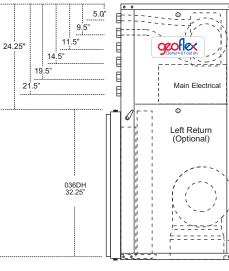
Geoflex Advanced Dehumidification Systems

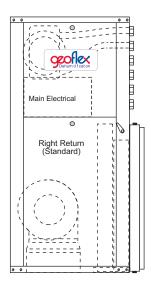
- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
- Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
- Can be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



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| 410A Single Step Dehumidification Performance Data |                      |              |                   |                               |                             |                           |                               |                             |                           |                               |                             |                           |                      |
|----------------------------------------------------|----------------------|--------------|-------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|----------------------|
|                                                    | Гал                  |              | Air               | RH 50%                        |                             |                           |                               | RH 55%                      |                           |                               | Flow                        |                           |                      |
| Model                                              | Fan<br>Motor<br>Type | Spd          | Air<br>Temp<br>°F | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Indoor<br>Air<br>CFM |
| 036                                                | PSC<br>PSC           | Full<br>Full | 80<br>82          | <u>8.6</u><br>8.9             | <u>18,585</u><br>18,040     | 27,450<br>26,812          | 9.4<br>10.7                   | <u>17,771</u><br>17,373     | 27,822<br>27,332          | <u>11.3</u><br>11.7           | 17,505<br>16,850            | 28,804<br>27,960          | 1,200                |
|                                                    | PSC                  | Full         | 84                | 10.9                          | 17,505                      | 26,185                    | 13.1                          | 16,915                      | 26,769                    | 14.3                          | 16,336                      | 27,299                    |                      |

|   | Single Step, 410A Electrical Data |         |              |         |            |      |      |        |        |  |               |                |              |             |     |            |
|---|-----------------------------------|---------|--------------|---------|------------|------|------|--------|--------|--|---------------|----------------|--------------|-------------|-----|------------|
|   | Madal                             | Voltage | Voltage      | Min/Max | Compressor |      |      | Blower | Blower |  | Total<br>Unit | Min<br>Circuit | Max<br>Fuse/ | Supply Wire |     |            |
|   | Model                             | Code    |              | Voltage | RLA        | LRA  | LRA* | Нр     | FLA    |  | FLA           | Amps           | HACR         | Min<br>AWG  | Max | Max Ft (M) |
| ſ |                                   | А       | 208-230/60/1 | 197/254 | 14.1       | 73.0 | 25.6 | .5     | 3.8    |  | 18.4          | 22.1           | 30           | 12          | 77  | (23.5)     |
| I | 26                                | С       | 208-230/60/3 | 197/254 | 8.9        | 58.0 |      | .5     | 2.8    |  | 12.2          | 14.7           | 20           | 14          | 70  | (21.4)     |
| I | 36                                | D       | 460/60/3     | 414/506 | 4.2        | 28.0 |      | .5     | 1.3    |  | 6.0           | 7.2            | 10           | 14          | 469 | (143.0)    |
|   |                                   | Е       | 575/60/3     | 518/633 | 3.5        | 24.0 |      | .5     | 1.0    |  | 5.0           | 6.0            | 10           | 14          | 700 | (213.5)    |

 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  $^\circ C$  copper conductor & minumum circuit ampacity



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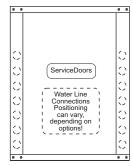
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| Technical Specifications                                         | Eleme                                | ents                  |                          | Standard Features                                                                           |
|------------------------------------------------------------------|--------------------------------------|-----------------------|--------------------------|---------------------------------------------------------------------------------------------|
| Geoflex Dehumidification System<br>Model 036 - 410A - Horizontal | Description                          | Туре                  | Internal Piping          | All Internal Refrigeration Piping is Insulated to Reduce                                    |
|                                                                  | Refrigerant                          | R410A                 |                          | Noise and Potential Pipe Degradation                                                        |
| Available Options                                                | Base Unit<br>Refrigreant             | 10° F<br>Superheat on | Air Coils                | Air Coils and internal components are coated and baked with an Acrylic Coating              |
| Straight Thru, Top or Bottom Air Discharge                       | Charge                               | Base Unit             | Low Noise                | 1" acoustical insulation & all internal refrigeration lines are                             |
| Pumps can be Built-in, pre-wired, pre-fused & pre-controlled     | Compressor                           | Scroll                | Package                  | fully insulated to reduce noise potential.                                                  |
| · · · · · · · · · · · · · · · · · · ·                            | Blower                               | Direct Drive          | Electronic               | On hand fault Discussion                                                                    |
| Partial Hot Water(s) c/w Internal Pump & High Limit Switch       |                                      | Baked Acrylic         | Diagnostics              | On board fault Diagnostics                                                                  |
| Demand Hot Water(s) c/w Internal Pump, if required               | Air Coil Coating                     | Process               | Cabinet                  | A Seperator Plate is used between the Air and                                               |
| 10, 15, 20K Back-up/emergency heater available                   |                                      | Anti-Corrosion        | Service &                | Refrigeration Section                                                                       |
| Web Based Monitoring System                                      | Condensate Pan                       | Coated                | Maintenance              | Service Doors Surround System                                                               |
| Flexible Orientation, air discharge, water connections           | Internal Air<br>Reheat               | DX                    | Refrigeration<br>Section | An Internal Negative Pressure Port is incoprorated to Reduce Heat or Condensation Build-up. |
| Diagnostic LED Function Light Array                              | Condensor                            |                       |                          |                                                                                             |
| K-Type ThermoProbes for simpler in field diagnostics             | Optional Pool<br>Reheat<br>Condensor | Co-axial              | Service<br>Switches      | Independant, Low & High Pressure & Low Flow c/w<br>HP & LP Memory                           |
| External DX Condensor                                            | Optional Water                       | Co-Axial              | Freon Service            | Bi-flow Filter/Drier & Moisture Indicating Sight Glass                                      |
| 100% Internal Water Condensor                                    | Condensor<br>Base Unit               | oo / Mai              | Evaporator               | All Evaporator Coils are Insulated to avoid                                                 |
| Proportional or 100% Water Reheat Systems                        | Weight                               |                       | Construction             | Condensation Rusting                                                                        |
| Cupronickel and Double Wall Vented Coils for specialized apps.   | Base Unit<br>Shipping Weight         |                       | Feild Adaption           | Designed to maximumize field adaptability<br>Field Positionable Condensate Line             |

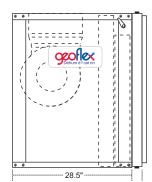
Geoflex Advanced Dehumidification Systems

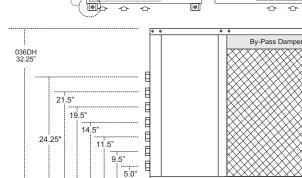
- Are designed within a modularized format to offer optimal configuration capabilities with consideration to efficiency, functionality, service & field adaption opportunities.
- Can be ordered in virtually any configuration, vertical, horizontal, top, bottom or straight thru discharge, etc.
- Can be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



Notes:

- 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.





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Optional Hanging Bracket Detail

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Return Air and Service Side Options

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42.5"

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| 410A Single Step Dehumidification Performance Data |                      |              |                   |                               |                             |                           |                               |                             |                           |                               |                             |                           |                      |
|----------------------------------------------------|----------------------|--------------|-------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|---------------------------|----------------------|
|                                                    | Гал                  | Spd          | A :               | RH 50%                        |                             |                           |                               | RH 55%                      |                           |                               | Flow                        |                           |                      |
| Model                                              | Fan<br>Motor<br>Type |              | Air<br>Temp<br>°F | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Mositure<br>Removal<br>Ibs/hr | Sensible<br>Cooling<br>Btuh | Total<br>Capacity<br>Btuh | Indoor<br>Air<br>CFM |
| 036                                                | PSC<br>PSC           | Full<br>Full | 80<br>82          | 8.6<br>8.9                    | 18,585<br>18,040            | 27,450<br>26,812          | 9.4<br>10.7                   | <u>17,771</u><br>17,373     | 27,822<br>27,332          | <u>11.3</u><br>11.7           | 17,505<br>16,850            | 28,804<br>27,960          | 1,200                |
|                                                    | PSC                  | Full         | 84                | 10.9                          | 17,505                      | 26,185                    | 13.1                          | 16,915                      | 26,769                    | 14.3                          | 16,336                      | 27,299                    |                      |

|       |         |              |                    |            | Sing | le Step, | 410A El | ectrical Da | ata |               |                |               |             |     |         |
|-------|---------|--------------|--------------------|------------|------|----------|---------|-------------|-----|---------------|----------------|---------------|-------------|-----|---------|
| Model | Voltage | Voltage      | Min/Max<br>Voltage | Compressor |      |          | Blower  | Blower      |     | Total<br>Unit | Min<br>Circuit | Max           | Supply Wire |     |         |
| Moder | Code    |              |                    | RLA        | LRA  | LRA*     | Нр      | FLA         |     | FLA           | Amps           | Fuse/<br>HACR | Min<br>AWG  | Max | Ft (M)  |
|       | А       | 208-230/60/1 | 197/254            | 14.1       | 73.0 | 25.6     | .5      | 3.8         |     | 18.4          | 22.1           | 30            | 12          | 77  | (23.5)  |
| 36    | С       | 208-230/60/3 | 197/254            | 8.9        | 58.0 |          | .5      | 2.8         |     | 12.2          | 14.7           | 20            | 14          | 70  | (21.4)  |
| 30    | D       | 460/60/3     | 414/506            | 4.2        | 28.0 |          | .5      | 1.3         |     | 6.0           | 7.2            | 10            | 14          | 469 | (143.0) |
|       | E       | 575/60/3     | 518/633            | 3.5        | 24.0 |          | .5      | 1.0         |     | 5.0           | 6.0            | 10            | 14          | 700 | (213.5) |

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 & minumum circuit ampacity

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