



6N280125 - 002

FACTORY ORDER FORM HEADER

| CONTRACT DETAILS | |
|--|---|
| Project Name: DuPont X Station Bldg 306 RTP | Customer Name: E I DUPONT DE NEMOURS & CO |
| Executing Branch: N28 - Salisbury/Wilmington Common Branch | Customer Base PO #: 6501603198 06/15/2016 |
| Job Location: 200 POWDER MILL ROAD WILMINGTON, DE 19803 USA | |

| ORDER DETAILS | |
|--|---|
| Contract-Order Number: 6N280125 - 002 | Description: YCAL - Air Cooled Chiller - CH-01 |
| Order Placed Date: 08/02/2016 | Fabrication Status: Released |
| Revision Number: 000 | Revision Date: 08/02/2016 |
| Liquidated Damages: No | Liquidated Damages Comments: null |

| LINE DETAILS | | | | | | | |
|--|----------------|--------------------------|-------------------------------|--|---|----------|--------------------------------|
| Line # | Change Order # | PO # | Earliest Cust. Req. Ship Date | Description | Shipping Address | Ship Via | Freight |
| 01 | 001 | 6501603198 06/15/2016 | 09/16/2016 | Base Unit/Access. - YCAL0046EE46XEB/R410 A | DuPont Experimental Station Bldg 361, PO#6501603198 200 Powder Mill Road WILMINGTON DE 19803 | Best Way | EXW - FOB Shipping Point |
| <p>SHIPPING INSTRUCTIONS: Do not finalize BOL, shipping to 3rd party, 3rd party modification PO# to follow. Ship to: FISEN Corp 6871 Dutton Industrial Drive, Dutton, MI 49316-8386. Coordinate delivery with Chris Beggs at 616-698-7279 48hrs B4 delivery. Final Destination: DuPont Experimental Station Bldg 361 200 Powder Mill Road Wilmington, DE 19803, call Jack Connor 48hrs prior delivery 302-695-2323, REF PO#6501603198</p> | | | | | | | |
| 02 | 001 | 6501603198 06/15/2016 | 09/16/2016 | Warranty - Compressor Warranty 66 months (5 Years) | DuPont Experimental Station Bldg 361, PO#6501603198 200 Powder Mill Road WILMINGTON DE 19803 | Best Way | EXW - FOB Shipping Point |
| <p>SHIPPING INSTRUCTIONS: Do not finalize BOL, shipping to 3rd party, 3rd party modification PO# to follow. Ship to: FISEN Corp 6871 Dutton Industrial Drive, Dutton, MI 49316-8386. Coordinate delivery with Chris Beggs at 616-698-7279 48hrs B4 delivery. Final Destination: DuPont Experimental Station Bldg 361 200 Powder Mill Road Wilmington, DE 19803, call Jack Connor 48hrs prior delivery 302-695-2323, REF PO#6501603198</p> | | | | | | | |
| 03 | 001 | 6501603198 06/15/2016 | 09/16/2016 | Start up/PCAT - Branch: Delmarva - 0260, Tier: 6 in 2016 | DuPont Experimental Station Bldg 361, PO#6501603198 200 Powder Mill Road WILMINGTON DE 19803 | Best Way | EXW - FOB Shipping Point |

SHIPPING INSTRUCTIONS: Do not finalize BOL, shipping to 3rd party, 3rd party modification PO# to follow. Ship to: FISEN Corp 6871 Dutton Industrial Drive, Dutton, MI 49316-8386. Coordinate delivery with Chris Beggs at 616-698-7279 48hrs B4 delivery. Final Destination: DuPont Experimental Station Bldg 361 200 Powder Mill Road Wilmington, DE 19803, call Jack Connor 48hrs prior delivery 302-695-2323, REF PO#6501603198

| | | | | | | | |
|----|-----|--------------------------|------------|--|--|----------|--------------------------------|
| 04 | 001 | 6501603198 06/15/2016 | 09/16/2016 | Shipping to a Third Party address for Modification - FISEN | Chris Beggs FISEN Corp 6871 Dutton Industrial Drive DUTTON MI 49316 | Best Way | EXW - FOB Shipping Point |
|----|-----|--------------------------|------------|--|--|----------|--------------------------------|

SHIPPING INSTRUCTIONS: Do not finalize BOL, shipping to 3rd party, 3rd party modification PO# to follow. Ship to: FISEN Corp 6871 Dutton Industrial Drive, Dutton, MI 49316-8386. Coordinate delivery with Chris Beggs at 616-698-7279 48hrs B4 delivery. Final Destination: DuPont Experimental Station Bldg 361 200 Powder Mill Road Wilmington, DE 19803, call Jack Connor 48hrs prior delivery 302-695-2323, REF PO#6501603198

| | | | | | | | |
|----|-----|--------------------------|------------|--|---|----------|--------------------------------|
| 05 | 001 | 6501603198 06/15/2016 | 09/16/2016 | Field Purchased - Special Instrumentation | DuPont Experimental Station Bldg 361, PO#6501603198 200 Powder Mill Road WILMINGTON DE 19803 | Best Way | EXW - FOB Shipping Point |
|----|-----|--------------------------|------------|--|---|----------|--------------------------------|

SHIPPING INSTRUCTIONS: Do not finalize BOL, shipping to 3rd party, 3rd party modification PO# to follow. Ship to: FISEN Corp 6871 Dutton Industrial Drive, Dutton, MI 49316-8386. Coordinate delivery with Chris Beggs at 616-698-7279 48hrs B4 delivery. Final Destination: DuPont Experimental Station Bldg 361 200 Powder Mill Road Wilmington, DE 19803, call Jack Connor 48hrs prior delivery 302-695-2323, REF PO#6501603198



ORDER SUMMARY

| Project Name | Contract No. | Revised YW Upload Revision No. | Revised YW Upload Date |
|-------------------------------|--------------|--------------------------------|------------------------|
| Dupont X Station Bldg 306 RTP | 6N280125 | 04 | Aug. 2, 2016 |

| Order No. | Line No. | Prod. Code | Description | Qty | Total MLP | Pricing Eff. Date | BTP |
|-------------------------|----------|------------|---|-----|-----------|-------------------|-----------------|
| 002 | | | YCAL - Air Cooled Chiller - CH-01 | | | | |
| | | | Base Unit/Access. - | | | | |
| | 01 | 1690 | YCAL0046EE46XEBBXTXAXXRLXXXX45XX1XXXXXXXXX SXXQXQX1XXXXXXXXNFXXXJB/R410A | 1 | 98687.00 | Jul. 22, 2016 | 27237.61 USD |
| | 02 | 8521 | Warranty - Compressor Warranty 66 months (5 Years) | 1 | 3890.00 | Jul. 22, 2016 | 3890.00 USD |
| | 03 | 7253 | Start up/PCAT - Branch: Delmarva - 0260, Tier: 6 in 2016 | 1 | 1920.00 | Jul. 22, 2016 | 1920.00 USD |
| | 04 | 9004 | Shipping to a Third Party address for Modification - FISEN | 1 | 36500.00 | | 36500.00 USD |
| | 05 | 9001 | Field Purchased - Special Instrumentation - | 1 | 8800.00 | | 8800.00 USD |
| Total BTP (USD): | | | | | | | 78347.61 |



Air Cooled Scroll Chillers Order Form

| Project Name | MLP Effective Date | Contract - Order No. | Order Rev. No. |
|--------------|--------------------|----------------------|----------------|
| | 2016-07-22 | 6N280125 - 002 | |

| Unit Tag | Qty | Model No | Net Cooling Capacity (ton.R) | Nominal Voltage | Refrigerant Type |
|----------|-----|---------------------|------------------------------|-----------------|------------------|
| CH-1 | 1 | YCAL0046EE46XEBBXTX | 39.32 | 460-3-60.0 | R410A |

| PIN: | | | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|------------|------------|--|
| YCAL0046EE | 46XEBBXTXA | XXRLXXXX45 | XX1XXXXXXXX | SXXQXQX1XX | XXXNFXXXJB | | | | |
|5...10 |5...20 |5...30 |5...40 |5...50 |5...60 |5...70 |5...80 |5...90 | |

| | EWT (°F) | LWT (°F) | Flow (USGP M) | PD (ft H2O) | Fluid | Fluid Concentration | Fouling Factor (h.ft².F/Btu) | Total kW | MCA | Shipping Weight (lb) |
|-------|----------|----------|---------------|-------------|------------------|---------------------|------------------------------|----------|-----|----------------------|
| Evap. | 57.47 | 45.00 | 80.00 | 6.53 | Propylene Glycol | 30 | 0.0001000 | 46.58 | 109 | 3288 |

| Design Ambient Temp. (°F) | Altitude (ft) |
|---------------------------|---------------|
| 95.0 | 0.000 |

| Isolator Weights (lb) (if selected) | | | | | | | | | | |
|-------------------------------------|------|-----|---|---|---|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| L | 1042 | 679 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| R | 1121 | 730 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Line # | Equipment Details | Qty. | MLP |
|---|---|-------|--------------|
| 01 | Base Unit (1690) | | |
| | YCAL0046EE | 1 | 60677 |
| | R-410A Refrigerant (Fully Charged) | 1 | STD |
| | Voltage Code - (460/3/60) | 1 | STD |
| | SP CB w/ L Ext Handle | 1 | 963 |
| | Control Transformer | 1 | 951 |
| | Both Low/High Ambient Kit Required | 1 | 3549 |
| | BACnet/Modbus/N2 (Native) | 1 | STD |
| | English | 1 | STD |
| | Discharge Pressure Readout (Standard) | 1 | STD |
| | cUL/cETL Listing | 1 | STD |
| | Service Isolation Valves | 1 | STD |
| | Hot Gas Bypass (1 circuit) | 1 | 1230 |
| | One Flow Switch per Chiller (150 psig Evaporator) | 1 | 288 |
| | UL Pressure Vessel Code | 1 | STD |
| Special Quote Number SQ16-114754-002: 1. Relief valve calculations in accordance with ASHRAE Standard 15 2. Relief valve cut sheets prior to production. 3. Relief valve certifications from the vendor. Add \$2275 MLP per unit | 1 | 2275 | |
| Special Quote Number SQ16-114754-003: To change components to accommodate 65 kA short circuit withstand rating. 1. Note you will need to select the Circuit Breaker Option for this option 2. PIN 46 3. This will extend the standard published ex-factory lead time 3-4 weeks. Check with your CSR for actual. Bill Johnston (x6317) | 1 | 12250 | |
| Wire (Full Unit) Enclosure Panels | 1 | STD | |
| Low Sound Fans | 1 | STD | |
| Neoprene Isolators | 1 | 499 | |
| Hydrokit J | 1 | 16005 | |
| Standard Mechanical Kit (Dual pump) | 1 | STD | |
| Extended MLP Subtotal | | | 98687 |
| 02 | Warranty | | |
| | Compressor Warranty: 66 months (5 Years) (Parts and Labour) | | 3890 |
| Extended MLP Subtotal | | | 3890 |
| 03 | Start up / PCAT | | |



Air Cooled Scroll Chillers Order Form

| Project Name | MLP Effective Date | Contract - Order No. | Order Rev. No. |
|--------------|--------------------|----------------------|----------------|
| | 2016-07-22 | 6N280125 - 002 | |

| | | |
|--|------------------------------|-------------|
| Branch: Delmarva - 0260 Installation Year: 2016 Number of days: 1.5 Tier: 6 | Extended MLP Subtotal | 1920 |
|--|------------------------------|-------------|



ORDER SPECIAL QUOTE SUMMARY

| Unit Tag | Quantity | Capacity (TR) |
|----------|----------|---------------|
| CH-1 | 1 | 40.1 |

| Unit PIN |
|--|
| YCAL0046EE46XEBBTXAXXRLXXX45XX1XXXXXXXXSXXQXQX1XXXXXXXXNFXXXJB |

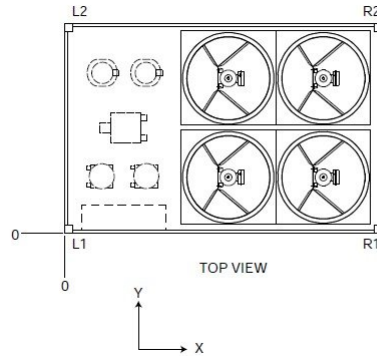
| SQ Drawings | | | |
|--------------|------|--------------------|------|
| Unit Drawing | None | Electrical Drawing | None |

| PIN Location(s) | SQ Number | SQ Weight (lbs) | Expiration Date | AE Approved |
|-----------------|-----------------|-----------------|-----------------|-------------|
| 44 | SQ16-114754-002 | 0.0 | 09/26/2016 | Yes |
| 46 | SQ16-114754-003 | 0.0 | 10/10/2016 | Yes |

| PIN Location(s) | SQ Number | SQ Resolution | \$ MLP/Unit |
|-----------------|-----------------|---|-------------|
| 44 | SQ16-114754-002 | 1. Relief valve calculations in accordance with ASHRAE Standard 15 2. Relief valve cut sheets prior to production. 3. Relief valve certifications from the vendor. Add \$2275 MLP per unit | 2275.00 |
| 46 | SQ16-114754-003 | To change components to accommodate 65 kA short circuit withstand rating. 1. Note you will need to select the Circuit Breaker Option for this option 2. PIN 46 3. This will extend the standard published ex-factory lead time 3-4 weeks. Check with your CSR for actual. Bill Johnston (x6317) | 12250.00 |

| | | | |
|---------------|----------------------|----------------------------------|--|
| Project Name: | New Project | York Contract No.: | |
| Unit Folder: | CH-1 | Last Modified Date: | |
| Saved: | 7/21/2016 2:31:56 AM | CH-1 Order Special Quote Summary | |
| Printed: | 7/21/2016 2:32:33 PM | | |

| | | | |
|---|-----------------|-------------|----------------------------|
| Project Name | Unit Tag | Date | Chiller Type |
| | CH-1 | 2016-05-06 | Air Cooled Scroll Chillers |
| PIN | | | Version |
| YCAL0046EE46XEBBXTXAXXRLXXX45XX1XXXXXXXXSXXQXQX1XXXXXXXXNFXXXJB | | | E.16.3.0-D.35.0033 |



| LOCATION | X Distance (in) | Y Distance (in) | JCI PART NUMBER | SAP NUMBER | COLOUR | Operating Weights (lb) |
|----------|-----------------|-----------------|-----------------|------------|-------------------|------------------------|
| R1 | 9.8 | 1.1 | 029-25335-002 | 434004 | RD-4 Brick Red-WR | 1121 |
| R2 | 135.0 | 1.1 | 029-25335-001 | 434002 | RD-3 Charcoal-WR | 730 |
| L1 | 9.8 | 89.5 | 029-25335-002 | 434004 | RD-4 Brick Red-WR | 1042 |
| L2 | 135.0 | 89.5 | 029-25335-001 | 434002 | RD-3 Charcoal-WR | 679 |

| Total Weight (lb) | | Centre of Gravity (in) | |
|-------------------|------|------------------------|------|
| Operating | 3573 | Xg | 59.2 |
| Shipping | 3288 | Yg | 43.7 |

All values are de-rated by 15% apart from those which have part number. (029-25334-013 and 029-25336-014: 0% de-rated), (029-25335-004: 10% de-rated), (029-25335-001 and 029-25335-003: 25% de-rated)