1/4" NPT F AUTO DRAIN

N2-BLAST WITH AUTOMATIC AIR BYPASS

AIR MAINTENANCE DEVICE/S
(RECOMMENDED AMD-1 OR EQUIVALENT - SUPPLIED BY OTHERS)

SEE NOTE 7

1/4" NPT F AUTO DRAIN
N2-BLAST WITH AUTOMATIC AIR BYPASS
INTERNAL AIR DRYER WITH NITROGEN STORAGE TANK

GENERAL NOTES:
(1) ALL COMPONENTS WITHIN THIS DRAWING ARE FOR ILLUSTRATION PURPOSES ONLY. FOR MORE INFORMATION ABOUT COMPRESSOR, DRYER AND NITROGEN GENERATOR REFER TO DRAWINGS: DD-AC-CS (COMPRESSOR), DD-RD-SC-25 (DRYER) AND DD-TYP5P-FPS (N2 GENERATOR).
(2) REFER TO THE MANUFACTURER'S MANUAL FOR ANCHORING REQUIREMENTS OF THE COMPRESSOR.
(3) AIR DRYER IS INTERNALLY PLUMBED AND PIPED INSIDE THE N2 GENERATOR.
(4) ALL CONNECTIONS ARE 1/2" NPT F UNLESS OTHERWISE SPECIFIED.
(5) ALL PIPING, FITTINGS, VALVES, AND HARDWARE BETWEEN COMPONENTS ARE SUPPLIED BY OTHERS.
(6) AIR COMPRESSOR AND N2 GENERATOR MUST BE INSTALLED ON A HARD FLAT SURFACE.
(7) SOUTH-TEK RECOMMENDS TO INSTALL 24" OF 1/2" ID FLEX TUBING RATED FOR 200 PSIG / 135 F (MINIMUM) TO REDUCE VIBRATION FROM COMPRESSOR TO HARD PIPING (OPTIONAL PART # “002-310”)

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NITROGEN GENERATOR

INTERNAL AIR DRYER WITH NITROGEN STORAGE TANK

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SOUTH-TEK SYSTEMS

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOUTH-TEK SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOUTH-TEK SYSTEMS IS PROHIBITED.
**Design Data for N2-Blast Type 5 Systems**

**Generator**
- FPS-10000
- FPS-16500
- FPS-22500

**Purity**
- 98% +

**Air Requirement**
- 13 SCFM @ 125 PSI
- 17 SCFM @ 125 PSI
- 22 SCFM @ 125 PSI

**N2 Out Pressure**
- 60-120 PSIG

**Shipping Weight**
- 870 LB
- 1020 LB
- 1070 LB

**Electrical**
- 110V / 50-60HZ / 1PHASE, <5 AMPS

**Filter Replacement Kit, STS Part # FRP-006**

<table>
<thead>
<tr>
<th>STS Part #</th>
<th>Description</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-300</td>
<td>PARTICULATE FILTER</td>
<td>1</td>
</tr>
<tr>
<td>900-310</td>
<td>COALESCING FILTER</td>
<td>1</td>
</tr>
<tr>
<td>900-335</td>
<td>ABSORBING FILTER</td>
<td>1</td>
</tr>
</tbody>
</table>

**Critical Components**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/2&quot; BALL VALVE, AIR INPUT</td>
</tr>
<tr>
<td>2</td>
<td>1/2&quot; BALL VALVE, NITROGEN OUTPUT</td>
</tr>
<tr>
<td>3</td>
<td>PARTICULATE FILTER</td>
</tr>
<tr>
<td>4</td>
<td>COALESCING FILTER</td>
</tr>
<tr>
<td>5</td>
<td>ABSORBING FILTER</td>
</tr>
<tr>
<td>6</td>
<td>PLC (UNITRONICS)</td>
</tr>
<tr>
<td>7</td>
<td>CONDENSATE DRAIN PORT</td>
</tr>
<tr>
<td>8</td>
<td>POWER ENTRY MODULE, 20 AMP BREAKER</td>
</tr>
<tr>
<td>9</td>
<td>SERIAL NUMBER LABEL</td>
</tr>
<tr>
<td>10</td>
<td>UL 508A OPEN INDUSTRIAL CONTROL PANEL LABEL</td>
</tr>
<tr>
<td>11</td>
<td>1/4&quot; NPT DRAIN LINES</td>
</tr>
</tbody>
</table>

**TYP5P Design Data and Dimensions**

**Material:**

**Finish:**

**Weight:**

**Project Name:**

**Detail Drawing**

**Number:** DD-TYP5P-FPS

**Revisions:** Only the latest 3 revisions will be shown. Older revisions consolidated and filed.

**Drawing:** 01

**Scale:** 1:16

**Size:** B

**Date:** 09/15/17

**Approved:** 03/13/18

**Scale:** 1:16

**Sheet:** 1 OF 2

**Proprietary and Confidential**

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80 GALLON ASME TANK

80 GALLON VERTICAL ASME TANK
ELITE W/ COOLER (MAG STARTER, AUTO TANK DRAIN, LOW OIL MONITOR, VIBRATION PADS)
1/4" NPT AUTO-DRAIN CONNECTION PORT LOCATED NEAR BOTTOM OF THE TANK. PIPE TO SITE DRAIN.

STNS-NF-C-5-CS

STNS-NF-C-7-CS AND STS-NF-C-7HD-CS

DETAIL K
SCALE 1 : 4

SCALE 1 : 4

80 GALLON ASME TANK

DETAIL L

DIMENSIONS

WEIGHT (LBS)

ELECTRICAL OPTIONS / AMPS

1 YEAR SERVICE KIT #

2 YEAR SERVICE KIT #

CS-050-(XXX)-16 STS-NF-C-5-CS 5 17.5 33 X 26 X 74 685 208-230V/1PH/24A CS-050-075-KIT1 CS-050-KIT2

CS-050-(XXX)-36 STS-NF-C-5-CS 7.5 24 41 X 26 X 78 885 lbs 230-460V/3PH/(18A-9A) CS-075-KIT2

CS-075HD-(XXX)-36 STS-NF-C-7HD-CS 10 35 230-460V/3PH/(28A-14A) CS-075HD-100-KIT1 CS-075HD-KIT2

CS-075-(XXX)-36 STS-NC-C-7-CS 7.5 24 41 X 26 X 78 885 lbs 230-460V/3PH/(18A-9A) CS-075-KIT2

CS-100-(XXX)-36 STS-NF-C-10-CS 10 35 230-460V/3PH/(28A-14A) CS-100-KIT3

MATERIAL: (CS) VERTICAL COMPRESSOR DESIGN DATA AND DIMENSIONS

FINISH: DD-AC-CS

PROJECT NAME: WEBSITE:

REV: 00

SCALE: 1:24

DATE: 01/12/18

REQUIRED REVISIONS:
- ONLY THE LATEST 3 REVISIONS WILL BE SHOWN. OLDER REVISIONS CONSOLIDATED AND FILED.

DRAWN: JVN

APPROVED: JVN

DATE: 01/12/18

SCALE: 1:24

WEIGHT: B

SIZE:

DATE: 01/12/18

SHEET: 1 OF 1

NUMBER:

SHEET TASK # REV

REVISIONS:

1/11/18 JVN JVN

REV: 00

SCALE: 1:24

DATE: 01/12/18

SHEET: 1 OF 1

NUMBER:

SHEET TASK # REV

REVISIONS:

1/11/18 JVN JVN

REV: 00

SCALE: 1:24

DATE: 01/12/18

SHEET: 1 OF 1

NUMBER:

SHEET TASK # REV

REVISIONS:

1/11/18 JVN JVN

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1/11/18 JVN JVN

REV: 00

SCALE: 1:24

DATE: 01/12/18

SHEET: 1 OF 1

NUMBER:

SHEET TASK # REV

REVISIONS:
GENERAL NOTES:
(1) TERMINAL BLOCKS 1 AND 2 OPEN FACE LEFT, GROUND 1 OPEN FACE RIGHT.
(2) TERMINAL BLOCKS 3-13 OPEN FACE RIGHT, GROUND 2 OPEN FACE LEFT.
(3) FERRITE CORE NEEDS TO BE INSTALLED WITHIN 2" OF TERMINAL AND WRAPPED A MIN. OF 2X.
(4) IF ALARM IS ACTIVE 11-14 WILL BE CLOSED AND 11-12 WILL BE OPEN.

TORQUE SPECIFICATIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MIN - MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuse Block</td>
<td>0.8 Nm - 1.6 Nm</td>
</tr>
<tr>
<td>Terminal Block</td>
<td>0.4 Nm - 0.6 Nm</td>
</tr>
<tr>
<td>Ground Block</td>
<td>0.4 Nm - 0.6 Nm</td>
</tr>
<tr>
<td>PLC</td>
<td>0.5 Nm MAX</td>
</tr>
<tr>
<td>Power Converter</td>
<td>0.67 Nm MAX</td>
</tr>
</tbody>
</table>

WIRING TABLE

<table>
<thead>
<tr>
<th>AWG</th>
<th>COLOR</th>
<th>SERVICE</th>
<th>FIELD / INTERNAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>CUSTOM CHOICE</td>
<td>110 VAC</td>
<td>FIELD</td>
</tr>
<tr>
<td>14-16</td>
<td>BLACK</td>
<td>110 VAC +</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>14-16</td>
<td>WHITE</td>
<td>110 VAC -</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>16-18</td>
<td>BROWN</td>
<td>24 VDC +</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>16-18</td>
<td>BLUE</td>
<td>24 VDC -</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>16-22</td>
<td>GREY</td>
<td>SIGNAL</td>
<td>INTERNAL</td>
</tr>
</tbody>
</table>
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