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SSR M4 M5,5 M7,5 M11

OPERATION AND MAINTENANCE MANUAL



This manual contains important safety information and must be made available to personnel who operate and maintain this machine.

M4	SERIAL No :	2101200 ->
M5,5	SERIAL No :	2121300 ->
M7,5	SERIAL No :	2141800 ->
M11	SERIAL No :	2161200 ->

C.C.N. : 89270334 GB
DATE : NOVEMBER 2002

OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION AND MAINTENANCE

RELEASED: 9-14-04
REVISED: 3-8-19
(REV: N)

1" DIAPHRAGM PUMP 1:1 RATIO (METALLIC)



READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

SERVICE KITS

Refer to Model Description Chart to match the pump material options.

637396-XXX for Fluid Section Repair with seats (see page 4).

637396-XX for Fluid Section Repair without seats (see page 4).

NOTE: This kit also contains several air motor seals which will need to be replaced.

637412 for Air Section Repair (see page 6).

PUMP DATA

Models..... see Model Description Chart for "-XXX"

Pump Type..... Non-Metallic Air Operated

Double Diaphragm

Material..... see Model Description Chart

Weight..... PE10P-AKS-XXX-A05..... 25.40 lbs (11.52 kgs)

PE10P-APS-XXX-A05..... 18.92 lbs (8.58 kgs)

PE10P-BKS-XXX-A05..... 25.40 lbs (11.52 kgs)

PE10P-BPS-XXX-A05..... 18.92 lbs (8.58 kgs)

PE10P-EKS-XXX-A05..... 26.72 lbs (12.12 kgs)

PE10P-EPS-XXX-A05..... 19.44 lbs (8.82 kgs)

PE10P-YKS-XXX-A05..... 26.29 lbs (11.93 kgs)

PE10P-YPS-XXX-A05..... 19.16 lbs (8.69 kgs)

Maximum Air Inlet Pressure..... 120 psig (8.3 bar)

Maximum Material Inlet Pressure... 10 psig (0.69 bar)

Maximum Outlet Pressure..... 120 psig (8.3 bar)

Maximum Flow Rate (Flooded inlet).... 53.0 gpm (200.6 lpm)

Displacement / Cycle @ 100 psig.... 0.226 gal. (0.86 lit.)

Maximum Particle Size 1/8" dia. (3.2 mm)

Maximum Temperature Limits (diaphragm / ball / seat materials)

E.P.R / EPDM..... -60° to 280° F (-51° to 138° C)

Hytrel®..... -20° to 180° F (-29° to 82° C)

Nitrile 10° to 180° F (-12° to 82° C)

Polypropylene 32° to 175° F (0° to 79° C)

PVDF (Kynar®) 10° to 200° F (-12° to 93° C)

Santoprene® -40° to 225° F (-40° to 107° C)

PTFE..... 40° to 225° F (4° to 107° C)

Viton® -40° to 350° F (-40° to 177° C)

Dimensional Data..... see page 8

Mounting Dimension .. 5.032" x 10.050" (127.8 mm x 255.3 mm)

Noise Level @ 70 psig, 60 cpm 79.7 dB(A)†

† The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP 55.1 using four microphones located.

NOTICE: All possible options are shown in the chart, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.

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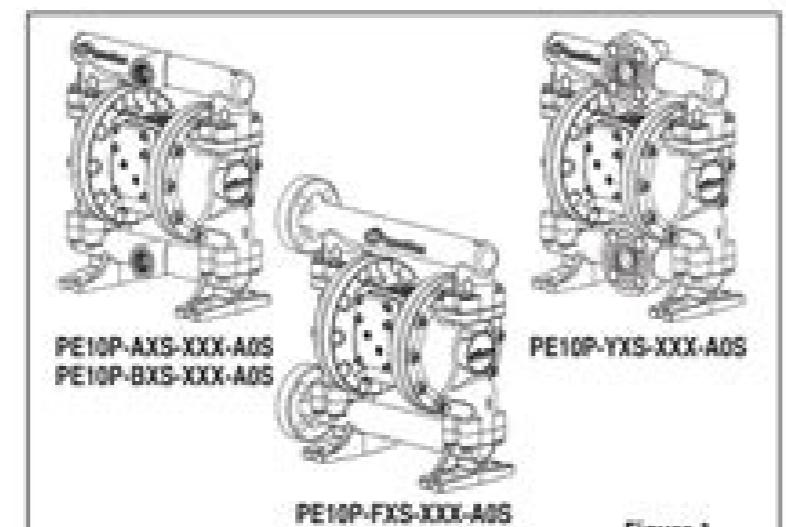
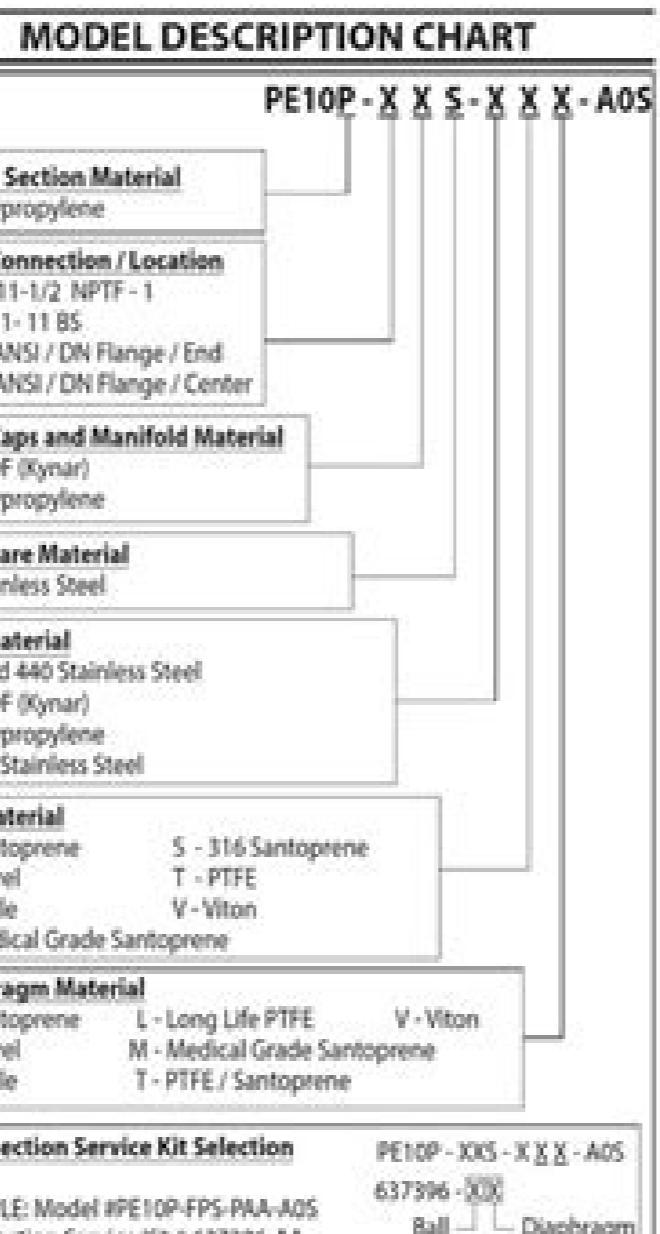


Figure 1



Fluid Section Service Kit # 637396-AA

Ball — Diaphragm

Diaphragm

XF 20/25/30

HP 20/25/30

HXP 20/25

OPTIONAL INSTRUCTION /
MANUAL /
OPTIONS

Onboard Power Solutions™

Operation & Maintenance Manual

Compressor Models

VHP40RMD - Diesel Drive
VHP40RMG - Gasoline Drive

This manual must be available to the personnel who

This manual must be available to the personnel who operate and maintain this machine.



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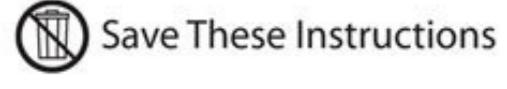
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Edition 2
September 2012

September 2012

QX Series Display

User Manual

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|  User Manual |  Používateľská príručka |
|  Manual de usuario |  Návod pro uživatele |
|  Manuel d'utilisation |  Kasutusjuhend |
|  Manuale per l'utente |  Felhasználói kézikönyv |
|  Benutzerhandbuch |  Naudototo vadovas |
|  Gebruikershandleiding |  Lietotāja rokasgrāmata |
|  Brugervejledning |  Podręcznik użytkownika |
|  Bruksanvisning |  Ръководства на потребителя |
|  Brukerhåndbok |  Manual de utilizare |
|  Käyttöopas |  Руководство пользователя |
|  Manual do Utilizador |  用户手册 |
|  Εγχειρίδιο Χρήστη |  グーザー マニュアル |
|  Uporabniški priročnik |  사용자 설명서 |



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Penina 1 SSR M4 M5.5 M7.5 M11 Operation and Maintenance Serial Manual No. 2101200 > This manual contains Important Security Information M5.5 Serial NO: 2121300 > and should be made available to people who operate and M7.5 serial at: 2141800 > ... Models of Panigan 2 represented in this manual can be used in local votes throughout the world. The mothers sold and sent to the territories of European union require the mother to display the CE brand and if in accordance with directive vain. In these cases, the design specification of this mother was certified as in accordance with the Community Directives. Any modification to any part is absolutely prohibited and would result in certification and mark being made up. Penina 3 Conterebus & Abbreviations Abbreviations & Symbols Contents ##### Contact Ingersoll Rand for Serial Number Contents ##### > Serial No. Foreword is not illustrated iso symbols & Option not required to be securely as required as required SitePack/SitePack Information • General sake of soda High Temperature / Mother Refrigerated Air ... Page 4 The containing of this manual is considered owner and the intended uses of this mother described below and confidential examples for ingersoll-rand and no They must be reproduced unused not approved, as well as data, however Ingersoll-rand can not be permissible in writing by ingersoll-rand. Penão 5 ISO SYMBOLS GRAPHIC FORM AND MEANING OF ISO SYMBOLS PROHIBITION / INFORMATION Mandatory / Instructions NOTICE: ELA © Trico Shock Risk. Attention à "Pressurized vase. Attendance à "Hot Superphyte. Attention à "Pressure control. Attention à "Risk of corrosion. Attendance à "Air flow / gus or air discharge. Warning à "... Page 6 ISO SYMBOLS WARNING à "No undertaking any attentions à "See the operation and maintenance in this mother Not breathe the compressed air of this maintenance Before starting the food eating is disconnected and the air mother. any maintenance. Panigan 7 Symbols ISO High point. On (power). Off (power). Read the operation manual and maintenance when parking uses support, mother brake and containing. before the operating or maintenance of this Chocks wheel. Mother is performed. Localized state sequences (atomizing control) I present the answer ... the coolant separator pressure air discharge pressurised tank in / other cicle coolant filter air filter on / off push button coolant pressure air presuage star IEC 617 à € 7 Automatic Restart Heat Exchanger Mainta ‡ A Page 9 ISO Symbols Belt Tension Filter Motor Lubrination Fagile Kep Dry Us Use No Hooks No Side Clamps Rotation Power Inlet (AC) Water in Water Out M4 M5.5 M7.5 M11 ... Page 10 Safety All Pressmen containing Peães, especially flexible hoses and their warnings Warning, must be inspected regularly, be free of defects and be warnings call the attention to instructions that must be followed by replaced in accordance with the instructions of the manual. precisely to avoid injuries or deaths. CAIANS The compressed air can be dangerous if handled incorrectly. The condensation elimination of the condenser condenser can not be discharged into fresh drains/water superficial. Steps to be taken in the case of spill: dive with a suitable in some records the condensate of the compressor containing the ultra absorbent material, then sweeps a plastic bag for elimination. Coolant can be powered directly on a downstream drainage system. General Information Review 00 11/97 Condensed 1 Filter, Air/Regulator 2 Válvula 3, Solenoid 4 Arend Regulatory Mounting 5 Motor Cooling 6 Tank, General Operation Separator 7 Tank, separator the compressor is a trico driven, single stage screw Fine compressor, complete with accessories piped, wired and baseplate or 8 Valve, minimum pressure... Page 13 GENERAL INFORMATION The power transmission from the drive motor to the airend male The compressor load control system is automatic ¢ÄÄOn¢ÄÄOff line¢ÄÄ. The rotor is by pulley and V¢ÄÄbelts. The constant auto tensioning system, compressor will operate to maintain a set discharge line pressure and using motor mass and torque, ensures that the belts are always under is provided with an autorestart system for use in plants where the air the correct tension, eliminating the need for adjustment and maximising... Page 14 GENERAL INFORMATION M5,5 M7,5 ELECTRICAL DATA Standard voltage 3 ~ 400V 3 ~ 400V 3 ~ 400V Drive motor Power 4,0 kW 5,5 kW 7,5 kW 11,0 kW Full load current 8,1 A 11,3 A 15,3 A 23,0 A (maximum) Starting current (approx.) Page 15 GENERAL INFORMATION CABLE Switch, emergency stop Supply earth Load solenoid L1¢ÄÄL3 Mains terminals Pressure switch Earth point, Sub¢ÄÄbase Star Delta Timer Main contactor Run¢ÄÄon Timer Delta contactor Hourmeter Star contactor R1¢ÄÄR2Relay, control Main motor Terminal, control Fuse ¢ÄÄ fan motor Pushbutton, start CB1¢ÄÄ5Circuit breaker... Page 17 INSTALLATION / HANDLING 89210074¢ÄÄ1 Revision 00 10/97 NOTE CAUTION All dimensions are in millimetres unless otherwise stated. Screw type compressors [1] should not be installed in air systems with reciprocating compressors without means of isolation such as a common receiver tank. It is recommended that both types of compressor be piped to a common receiver using individual air lines. Page 18 INSTALLATION / HANDLING 89210074¢ÄÄ2 Revision 00 10/97 CAUTION The use of plastic bowls on line filters and other plastic air line components without metal guards can be hazardous. Their safety can be affected by either synthetic or or the additives used in mineral oils. Page 19 INSTALLATION / HANDLING 89210074¢ÄÄ3 Revision 00 02/98 DISCHARGE PIPING CAUTION: Do not remove the motor table transit bolt until the electrical connection and correct rotation have been completed. Discharge piping should be at least as large as the discharge connection of the compressor. All piping and fittings should be suitably rated for the discharge pressure. OPERATING INSTRUCTIONS PRIOR TO STARTING 1. Check coolant level. Add if necessary. 1: PRESSURE GAUGE Indicates the pressure immediately after the aftercooler. DO NOT The reservoir is designed to prevent overfill. With warm unit stopped operate the compressor at discharge pressures over the rated in the normal way, the sight tube level should be within 15mm of the top pressure. Page 21 AIRCARE WARRANTY Superior Service Solutions for Air Systems AirCare is a responsive and flexible contract maintenance program custom designed for the owner who requires planned maintenance for increased system reliability. The AirCare program provides you with reduced maintenance costs, reduced energy usage through optimization and efficiency, and reduced production losses through fewer unexpected maintenance requirements and downtime. Page 22 MAINTENANCE PERIOD MAINTENANCE the machine cannot be started accidentally or otherwise, by posting warning signs and/or fitting appropriate anti¢ÄÄstart devices. Check the coolant level and replenish if Daily necessary. all residual electrical power sources (mains and battery) are Check that the safety valve easing gear isolated. Page 23 MAINTENANCE 2. Place a suitable container close to the drain valve. SEPARATOR ELEMENT CHANGE PROCEDURE 1. Disconnect the hose at the top of the separator tank. 3. Screw the coolant drain hose onto the drain valve. As the threads engage, the valve will automatically open and the coolant will drain. 2. Page 24 MAINTENANCE SETTING THE PRESSURE SWITCH (1PS) The ria derpmoc eht ,oslA .ffo denrut eb tsum hctiws ffo/no eht dna hctiws sniam eht ,reyrd eht no riaper ro ecnanetniam gnitrats erofeB GNITOOLS ELBUORT .seitiralugerri yna .dettif ton si swohs ecnanetniam nehw 72 egap in tsil gnitoohs -IBâelbuort eht kcehc niard taolf eht ,niard etasnednoc dellortnoc level ro emit a htiW ehT .rotacidni tniop wed eht fo noitisop eht kcehc ylralugeR 2 - 1st noitarepo gniru D 1 - IIB .setunim nihtiwi dehcaer eb lliw ytilauq ria elbatpecca :launam siht yb derevoc sreyrD riA derpmoc tnaregirfeR YTIDILAV .ON LAIRES .rosserpmoc eht htiw strats reyrd ehT SNOITPO 82 egaP .detanimatnac reltif riA ward tnerruc woL .egatlov decnalabnU .egatlov detar evoba gnitarepo rosserpmo C ward tnerruc hgiH .noitairav egatlov eniL . ? 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