

DCAC PUMP P13100

DCAC PUMP P13200

CHILLED WATER PUMP P14100

CHILLED WATER PUMP P14200

VAM	Project	Page	Order Number	
	1780 Nr. 9		U	Item
Installation Pumps, Ventilators, Small machines Acceptance protocol			5	6948 1

Designation

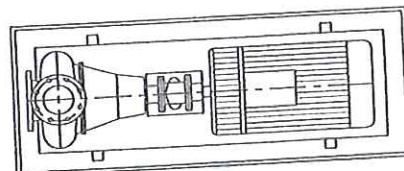
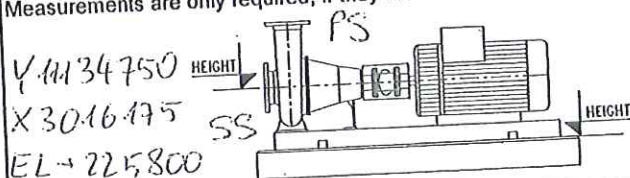
Equipment No.

P 13100

- ☐ direct Drive
☐ with Belt Drive

Fine alignment on the foundation

Measurements are only required, if they are needed for the continuation of installation.



Fine alignment on the foundation

The approved values shall be taken from the manufactures specifications. The controll of large machines (compressors, turbines) shall be carried out according to the manufactures specifications. Measured values shall be given in a scale of 1/100 mm.

Required value	SS	0°	PS	0°
		-0.1		0
Measured value	270°	+0.1	Axial	0
			90°	
			180°	
			Radial	0
			180°	0.1
			90°	

☐ Measured by gauge

☒ Controlled with leader gauge and hairline calibre (no measurement value)

Control and Examinations

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Anchor bolts grouted and tightened | <input type="checkbox"/> Drain of ground plates installed | <input type="checkbox"/> Sealing water pipes installed |
| <input checked="" type="checkbox"/> Cooling water pipes installed | <input type="checkbox"/> Heating pipes installed | <input type="checkbox"/> Equipment cleaned (inside) |
| <input type="checkbox"/> Inside pipes installed | <input checked="" type="checkbox"/> Typeplate checked | <input type="checkbox"/> Coupling protection installed |
| <input checked="" type="checkbox"/> Flow direction of the valves checked | <input type="checkbox"/> Connecting plate for the earth connection of the equipment checked | |
| <input type="checkbox"/> Coupling installed | <input type="checkbox"/> Oiler / Thermometer / Manometer installed | |
| <input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____ | <input type="checkbox"/> Bearing box / gear flushed and filled with oil. Type of oil: _____ | |
| <input type="checkbox"/> Rust protective agent removed | <input type="checkbox"/> Packing / Slide ring seal is built-in | |
| <input type="checkbox"/> Packing box cleaned | <input type="checkbox"/> Rotational direction controlled | |
| <input type="checkbox"/> Hand rotation controlled | <input type="checkbox"/> Parallelism o. the motor a. machine checked | <input type="checkbox"/> V-belt tension checked |
| <input type="checkbox"/> V-belt installed | <input checked="" type="checkbox"/> Visual check for damage executed | |
| <input type="checkbox"/> V-belt protecting box installed | | |
| <input type="checkbox"/> Transportation safeguards removed | | |

Comments

1) X = Executed ● = Not required

addressed by J. Duhov

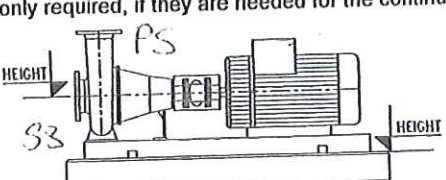
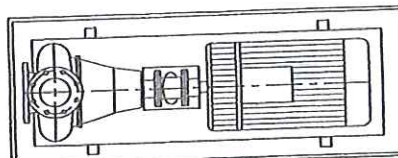
24.2.06

Date

Customer

23.02.2006

VAM GmbH & Co.
 Anlagentechnik und Montagen
 Organizačná zložka zahraničnej osoby
 Letisko Košice 998
 SK 040 17 Košice - Jaros
 Abnahmeprotokoll-Pumpen-Englisch1 Original

VAM	Project <u>ASU Vn. 9</u>	Page	Order Number												
Installation Pumps, Ventilators, Small machines Acceptance protocoll			U Item <u>5</u> <u>6948</u> <u>1</u>												
Designation _____ Equipment No. <u>P 13 200</u>		<input type="checkbox"/> direct Drive <input type="checkbox"/> with Belt Drive													
Fine alignment on the foundation Measurements are only required, if they are needed for the continuation of installation.															
<u>VH136250</u> <u>X 3046175</u> <u>EL1225800</u>		 													
Fine alignment on the foundation The approved values shall be taken from the manufactures specifications. The controll of large machines (compressors, turbines) shall be carried out according to the manufactures specifications. Measured values shall be given in a scale of 1/100 mm.															
Required value _____ Measured value _____		<table border="0" style="width:100%;"> <tr> <td style="text-align: center;">SS</td> <td style="text-align: center;">0° 0,1</td> <td style="text-align: center;">PS</td> <td style="text-align: center;">0° -0,1</td> </tr> <tr> <td style="text-align: center;">270° 0,1</td> <td style="text-align: center;">Axial 0,2</td> <td style="text-align: center;">270° 0</td> <td style="text-align: center;">Radial +0,1</td> </tr> <tr> <td></td> <td style="text-align: center;">180° 0</td> <td></td> <td style="text-align: center;">180° +0,1</td> </tr> </table>		SS	0° 0,1	PS	0° -0,1	270° 0,1	Axial 0,2	270° 0	Radial +0,1		180° 0		180° +0,1
SS	0° 0,1	PS	0° -0,1												
270° 0,1	Axial 0,2	270° 0	Radial +0,1												
	180° 0		180° +0,1												
<input type="checkbox"/> Measured by gauge		<input checked="" type="checkbox"/> Controlled with leader gauge and hairline calibre (no measurement value)													
Control and Examinations															
<input checked="" type="checkbox"/> Anchor bolts grouted and tightened <input checked="" type="checkbox"/> Cooling water pipes installed <input type="checkbox"/> Inside pipes installed <input checked="" type="checkbox"/> Flow direction of the valves checked <input type="checkbox"/> Coupling installed <input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____ <input type="checkbox"/> Rust protective agent removed <input type="checkbox"/> Packing box cleaned <input type="checkbox"/> Hand rotation controlled <input type="checkbox"/> V-belt installed <input type="checkbox"/> V-belt protecting box installed <input type="checkbox"/> Transportation safeguards removed		<input type="checkbox"/> Drain of ground plates installed <input type="checkbox"/> Heating pipes installed <input checked="" type="checkbox"/> Typeplate checked <input type="checkbox"/> Connecting plate for the earth connection of the equipment checked <input type="checkbox"/> Oiler / Thermometer / Manometer installed <input type="checkbox"/> Coupling protection installed <input type="checkbox"/> Bearing box / gear flushed and filled with oil. Type of oil: _____ <input type="checkbox"/> Packing / Slide ring seal is built-in <input type="checkbox"/> Rotational direction controlled <input type="checkbox"/> Parallelism o. the motor a. machine checked <input type="checkbox"/> V-belt tension checked <input checked="" type="checkbox"/> Visual check for damage executed													
Comments 1) X = Executed ● = Not required <div style="text-align: right; margin-top: 10px;"><u>rechecked by J. Dierker</u></div>															
Date <u>24.7.06</u> Steeg		Customer _____ 23.02.2006 <div style="text-align: right;"> VAM GmbH & Co Anlagentechnik und Montagen Organizačná zložka zahraničnej osoby Letisko Košice 003 Abnahmeprotokoll Pumpen-Englisch1 Original: </div>													

Installation

Pumps, Ventilators, Small machines Acceptance protocol

U

Item

Designation

Equipment No.

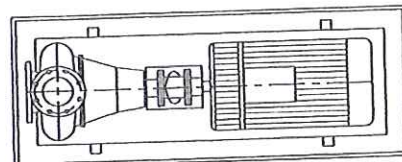
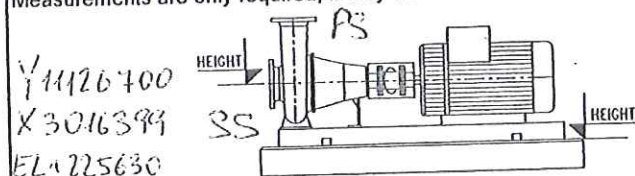
P 44100

☐ direct Drive

☐ with Belt Drive

Fine alignment on the foundation

Measurements are only required, if they are needed for the continuation of installation.



Fine alignment on the foundation

The approved values shall be taken from the manufactures specifications. The controll of large machines (compressors, turbines) shall be carried out according to the manufactures specifications. Measured values shall be given in a scale of 1/100 mm.

Required value	SS	0°	0	Axial	0,1	90°	PS	0°	-0,1	Radial	+0,1	90°
Measured value	270°	0					270°	0				
			0,1						0			
			180°						180°			

☐ Measured by gauge

☒ Controlled with leader gauge and hairline calibre (no measurement value)

Controll and Examinations

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Anchor bolts grouted and tightened | <input type="checkbox"/> Drain of ground plates installed | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Cooling water pipes installed | <input type="checkbox"/> Heating pipes installed | <input type="checkbox"/> Sealing water pipes installed |
| <input type="checkbox"/> Inside pipes installed | <input checked="" type="checkbox"/> Typeplate checked | <input type="checkbox"/> Equipment cleaned (inside) |
| <input checked="" type="checkbox"/> Flow direction of the valves checked | <input type="checkbox"/> Connecting plate for the earth connection of the equipment checked | |
| <input type="checkbox"/> Coupling installed | <input type="checkbox"/> Oiler / Thermometer / Manometer installed | <input type="checkbox"/> Coupling protection installed |
| <input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____ | | |
| <input type="checkbox"/> Rust protective agent removed | <input type="checkbox"/> Bearing box / gear flushed and filled with oil. | Type of oil: _____ |
| <input type="checkbox"/> Packing box cleaned | <input type="checkbox"/> Packing / Slide ring seal is built-in | |
| <input type="checkbox"/> Hand rotation controlled | <input type="checkbox"/> Rotational direction controlled | |
| <input type="checkbox"/> V-belt installed | <input type="checkbox"/> Parallelism o. the motor a. machine checked | <input type="checkbox"/> V-belt tension checked |
| <input type="checkbox"/> V-belt protecting box installed | | |
| <input type="checkbox"/> Transportation safeguards removed | <input checked="" type="checkbox"/> Visual check for damage executed | |

Comments

1) X = Executed • = Not required

withnessed by f. Dikow

24.2.06

Date

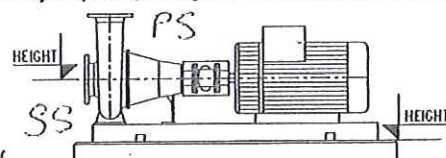
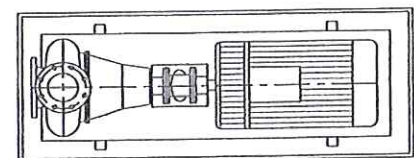
Customer

23.02.2006

VAM GmbH & Co. Anlagentechnik und Montagen

Organizačná zložka zahraničnej osôb
Letisko Bratislava 998
SK - 040 17

Abnahmeprotokoll-Pumpen-Englisch1 Original

VAM	Project <u>HSU No. 9</u>	Page	Order Number																																				
Installation Pumps, Ventilators, Small machines Acceptance protocol			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">U</td> <td style="width: 40%; text-align: center;">Item</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">6948</td> <td style="text-align: center;">1</td> </tr> </table>	U	Item		5	6948	1																														
U	Item																																						
5	6948	1																																					
Designation _____ Equipment No. <u>P 14200</u> <div style="float: right;"> <input type="checkbox"/> direct Drive <input type="checkbox"/> with Belt Drive </div>																																							
Fine alignment on the foundation Measurements are only required, if they are needed for the continuation of installation.																																							
<u>YAM28300</u> <u>X 30.16399</u> <u>EL +22563.1</u>		 																																					
Fine alignment on the foundation The approved values shall be taken from the manufactures specifications. The controll of large machines (compressors, turbines) shall be carried out according to the manufactures specifications. Measured values shall be given in a scale of 1/100 mm.																																							
Required value _____ Measured value		<table style="width: 100%; text-align: center;"> <tr> <td colspan="2">SS</td> <td colspan="2">PS</td> </tr> <tr> <td>0°</td> <td><u>+0.1</u></td> <td>0°</td> <td><u>-0.1</u></td> </tr> <tr> <td>270°</td> <td><u>-0.1</u></td> <td>270°</td> <td><u>+0.1</u></td> </tr> <tr> <td>Axial</td> <td><u>0</u></td> <td>Radial</td> <td><u>-0.1</u></td> </tr> <tr> <td>180°</td> <td><u>0</u></td> <td>180°</td> <td><u>0</u></td> </tr> </table>		SS		PS		0°	<u>+0.1</u>	0°	<u>-0.1</u>	270°	<u>-0.1</u>	270°	<u>+0.1</u>	Axial	<u>0</u>	Radial	<u>-0.1</u>	180°	<u>0</u>	180°	<u>0</u>																
SS		PS																																					
0°	<u>+0.1</u>	0°	<u>-0.1</u>																																				
270°	<u>-0.1</u>	270°	<u>+0.1</u>																																				
Axial	<u>0</u>	Radial	<u>-0.1</u>																																				
180°	<u>0</u>	180°	<u>0</u>																																				
<input type="checkbox"/> Measured by gauge		<input checked="" type="checkbox"/> Controlled with leader gauge and hairline calibre (no measurement value)																																					
Control and Examinations																																							
<table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Anchor bolts grouted and tightened</td> <td><input type="checkbox"/> Drain of ground plates installed</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Cooling water pipes installed</td> <td><input type="checkbox"/> Heating pipes installed</td> <td><input type="checkbox"/> Sealing water pipes installed</td> </tr> <tr> <td><input type="checkbox"/> Inside pipes installed</td> <td><input checked="" type="checkbox"/> Typeplate checked</td> <td><input type="checkbox"/> Equipment cleaned (inside)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Flow direction of the valves checked</td> <td><input type="checkbox"/> Connecting plate for the earth connection of the equipment checked</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Coupling installed</td> <td><input type="checkbox"/> Oiler / Thermometer / Manometer installed</td> <td><input type="checkbox"/> Coupling protection installed</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____</td> </tr> <tr> <td><input type="checkbox"/> Rust protective agent removed</td> <td><input type="checkbox"/> Bearing box / gear flushed and filled with oil.</td> <td>Type of oil: _____</td> </tr> <tr> <td><input type="checkbox"/> Packing box cleaned</td> <td><input type="checkbox"/> Packing / Slide ring seal is built-in</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Hand rotation controlled</td> <td><input type="checkbox"/> Rotational direction controlled</td> <td></td> </tr> <tr> <td><input type="checkbox"/> V-belt installed</td> <td><input type="checkbox"/> Parallelism o. the motor a. machine checked</td> <td><input type="checkbox"/> V-belt tension checked</td> </tr> <tr> <td><input type="checkbox"/> V-belt protecting box installed</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Transportation safeguards removed</td> <td><input checked="" type="checkbox"/> Visual check for damage executed</td> <td></td> </tr> </table>				<input checked="" type="checkbox"/> Anchor bolts grouted and tightened	<input type="checkbox"/> Drain of ground plates installed	<input type="checkbox"/>	<input checked="" type="checkbox"/> Cooling water pipes installed	<input type="checkbox"/> Heating pipes installed	<input type="checkbox"/> Sealing water pipes installed	<input type="checkbox"/> Inside pipes installed	<input checked="" type="checkbox"/> Typeplate checked	<input type="checkbox"/> Equipment cleaned (inside)	<input checked="" type="checkbox"/> Flow direction of the valves checked	<input type="checkbox"/> Connecting plate for the earth connection of the equipment checked		<input type="checkbox"/> Coupling installed	<input type="checkbox"/> Oiler / Thermometer / Manometer installed	<input type="checkbox"/> Coupling protection installed	<input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____			<input type="checkbox"/> Rust protective agent removed	<input type="checkbox"/> Bearing box / gear flushed and filled with oil.	Type of oil: _____	<input type="checkbox"/> Packing box cleaned	<input type="checkbox"/> Packing / Slide ring seal is built-in		<input type="checkbox"/> Hand rotation controlled	<input type="checkbox"/> Rotational direction controlled		<input type="checkbox"/> V-belt installed	<input type="checkbox"/> Parallelism o. the motor a. machine checked	<input type="checkbox"/> V-belt tension checked	<input type="checkbox"/> V-belt protecting box installed			<input type="checkbox"/> Transportation safeguards removed	<input checked="" type="checkbox"/> Visual check for damage executed	
<input checked="" type="checkbox"/> Anchor bolts grouted and tightened	<input type="checkbox"/> Drain of ground plates installed	<input type="checkbox"/>																																					
<input checked="" type="checkbox"/> Cooling water pipes installed	<input type="checkbox"/> Heating pipes installed	<input type="checkbox"/> Sealing water pipes installed																																					
<input type="checkbox"/> Inside pipes installed	<input checked="" type="checkbox"/> Typeplate checked	<input type="checkbox"/> Equipment cleaned (inside)																																					
<input checked="" type="checkbox"/> Flow direction of the valves checked	<input type="checkbox"/> Connecting plate for the earth connection of the equipment checked																																						
<input type="checkbox"/> Coupling installed	<input type="checkbox"/> Oiler / Thermometer / Manometer installed	<input type="checkbox"/> Coupling protection installed																																					
<input type="checkbox"/> Coupling filled with oil/ -with grease. Type of oil/grease: _____																																							
<input type="checkbox"/> Rust protective agent removed	<input type="checkbox"/> Bearing box / gear flushed and filled with oil.	Type of oil: _____																																					
<input type="checkbox"/> Packing box cleaned	<input type="checkbox"/> Packing / Slide ring seal is built-in																																						
<input type="checkbox"/> Hand rotation controlled	<input type="checkbox"/> Rotational direction controlled																																						
<input type="checkbox"/> V-belt installed	<input type="checkbox"/> Parallelism o. the motor a. machine checked	<input type="checkbox"/> V-belt tension checked																																					
<input type="checkbox"/> V-belt protecting box installed																																							
<input type="checkbox"/> Transportation safeguards removed	<input checked="" type="checkbox"/> Visual check for damage executed																																						
Comments 1) X = Executed ● = Not required <div style="text-align: right; margin-top: 10px;"> <u>Witnessed by J. Dehner</u> </div>																																							
VAM GmbH & Co. WVA B Anlagentechnik und Montagen WVA B Organizačná zložka zodpovedajúcej osoby Letisko Košice 998 SK - 040 17 Košice Contractors (4)																																							
<u>24.2.06</u> Date		Customer																																					