

### **HENKELMAN DT 60 & 100**

### GEBRUIKSAANWIJZING INSTRUCTION MANUAL BEDIENUNGSANLEITUNG MODE D'EMPLOI

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This manual is written specifically for the HENKELMAN DT 60 Dip Tank. Henkelman B.V. can not be held responsible for any damage due to different specifications.

This manual has been written with the utmost care. Henkelman B.V. does not accept responsibility for any errors in the manual and/or incorrect interpretation of these instructions.

Henkelman B.V. is not liable for damage and/or problems occurring due to use of any other parts than those supplied by Henkelman B.V.

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If this manual does not contain instructions for certain repairs, adjustments or maintenance, please contact your dealer or Henkelman B.V.

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### **INTRODUCTION**

Original Henkelman is superior vacuum technique developed by professionals with 25 years of experience. Specialist know-how of the market and product guarantee that these durable machines satisfy the most stringent requirements for quality, operational safety and ease of service.

Using Original Henkelman vacuum machines will boost production efficiency and heighten the quality, storage life and presentation of the product.

### MACHINE APPLICATION DIP TANK

The dip tank is applied in food packaging processes. Food products are usually packed in shrink bags closed by a sealing process. The food packaging can also include a vacuum process for food preservation.

After the packaging process, food products are placed into the dip tank with warm water in which the shrink bag will smoothly shrink around the food product.

The main objectives for the dip tank shrinking process is to shrink the plastic flaps from the packaging material around the food product in order to enhance the product packaging presentation and to make the product handling and distribution process easier.

- □ Use de-chalked water, this to prevent unnecessary problems
- □ Make sure the water level is always above the heating elements
- □ Check monthly the proper function of the floating element.
- □ Please note: do not drain the water before it is cooled down. This to prevent accidents with hot water.
- ☐ If you want to clean the tank, after you drain the water, the heating element can still be hot.

### **INSTALLATION PROCEDURE**

- Turn the knob at the arm to release this. Pull it up to the desired height and turn it to the right so it is **not** above the tank. Then tighten the knob again.
- Remove the bolts on top of the sliding rod. Remove the platform.
- Place the isolation balls on the surface of the water. (option)
- Make sure the tap at the back of the machine is closed. Manually fill the tank with de-chalked water.
- Place the platform on the sliding rod and make sure the ring are fitted as well. Tighten the bolts.
- Open the operation box and set the desired temperature for the water; see instruction manual (Temperature control settings)

### **OPERATION PROCEDURE**

- Place packaged products on the platform
- Hold the start button for 1 second
   (the platform with products will now automatically descend into the water and rise again. The whole process takes approximately 3 seconds)
- Take the products from the platform and this procedure can start again.

### **AFTER-OPERATION PROCEDURE**

- Lower the temperature on the regulator; see instruction manual page 4
- After the water is cool, open the tap.
   (the water is flowing out of the dip tank)

### **MAINTENANCE PROCEDURES**

- Check monthly the proper function of the floating element.
- Clean the tank and platform regularly. Make sure the heating elements are free of chalk but do not damage then. (use de-chalk fluid the clean them)
- Also clean the guiding beam in the tank, this will make sure the platform can freely move up and down.

### **TEMPERATURE CONTROL SETTINGS**

### Setting of desired temperature (Heating/Cooling mode)

- Press the "SET" button twice shortly
- The adjusted temperature is displayed.
- The shown value can be changed with help of the "UP" or "DOWN" button.
- If no buttons are used within 10 seconds, the control unit automatically will switch back to the normal operating mode; the last entered set point temperature will stay in memory.
- If the correct temperature is reached, you have to push the "FNC" button twice shortly to store the new value into the memory of the temperature control unit.

### **TROUBLE SHOOTING - 1**

PROBLEM	CAUSE	SOLLUTION
The machine doesn't function.	The plug is not connected.	Check the Plug on a proper connection.
(no power light or display)	• The fuse(s) from the main power supply are burned	Replace the fuse(s)
	<ul> <li>The automatic fuse in the electrical cabinet is switched off.</li> </ul>	Check the automatic fuse, and reset it.
	Main switch (S1) is switched off	Switch on the main switch on the backside of the machine
The machine doesn't heat up The power light is on.	<ul><li>Insufficient level of water.</li><li>The adjusted value is to low</li></ul>	Ad water to the recommended level. Max. level :10 cm under the edge. Preference unchalked water
	Trie adjusted value is to low     Temperature control is     malfunction	<ul> <li>Increase the temperature.</li> <li>Check the temperature control</li> </ul>
Pump is running after completing the total cycle	<ul> <li>Micro switch (S4) has a short cut.</li> <li>Start button (S3) has a short cut</li> </ul>	<ul> <li>Check the proper function and the correct position.</li> <li>Check the proper function and the correct position.</li> </ul>
The platform is not going down.	Rotating direction of the pump is wrong	Interchange two phases
	The start switch is disconnect or broken	Check the start switch
	Thermical overload pump is activated	Check the setting. The used thermical overload will activate automatically after cooling down.
The platform is only going down when start button is pushed	<ul> <li>Micro switch (S4) is malfunctioning</li> </ul>	Check the micro switch (S4)
The platform is not rising.	The total weight of the products is to much.	Switch of the machine. Let the water cool down or drain it. Take out the product and start again.
	<ul> <li>Thermical overload is activated.</li> </ul>	Check the setting.
	<ul><li>Time relay is malfunction</li><li>Insufficient amount of oil</li></ul>	<ul><li>Check the time relay.</li><li>Check the oil level</li></ul>
Machine is heating up despite absent of water.	<ul> <li>Floating device is stuck in top position.</li> </ul>	Check floating device. If necessary clean it.

The display shows "F1"	Land Cining the sale of superior	A -l
The display shows "E1".	Insufficient level of water.	Ad water to the
		recommended level. Max.
		level :10 cm under the
		edge. Preference un-
		•
	<ul> <li>Disconnection or malfunction of</li> </ul>	chalked water
	the connection cable, the	<ul> <li>Check the connections and</li> </ul>
	temperature sensor (P1) / or	the function of the
	floating device (S5).	mentioned elements.

### **TECHNINICAL SPECIFICATIONS**

Machine type	DT 60		DT 100
Dimensions machine(mm)	770 x 740 x 13	20 (1530)	880 x 940 x 1320 (1530)
(L x B x H)			
Dimensions plateau (mm)	600 x 500		800 x 600
(L x B)		262	
Stroke length (mm)		260	
Dip depth (mm)	120	200	150
Weight machine (Kg)	120		150
Volume (M³)	0.75 870 x 860 x x13	220	1.1 970 x 1070 x 1410
Dimensions incl. Packaging (mm) (L x B x H)	8/U X 80U X XI.	330	9/0 X 10/0 X 1410
Weight incl. Packaging (Kg)	170		210
Volume incl. Packaging (M <sup>3</sup> )	1.0		1.5
Working height (mm)		900	
Water capacity (L)	95		150
Connection voltage			- ground 50/60 HZ
			eutral – ground 50/60 Hz
Max. voltage tolerance		e described volt	age on the type plate
Electrical power consumption (Kw)	9		15
Amperage at 400 Volt	16 AT	_	25 AT
Recommended fuses main power su			3 x 35 AT
Amperage at 230 Volt	26 AT	_	40 AT
Recommended fuses main power su	upply 3 x 35 A I		3 x 50 AT
Movement of the plateau		Hydrauli	С
Capacity oil reservoir (L)		8	
Recommended amount (L)		5	
Recommended oil type		ISO VG 32	
Max. load on plateau		35 Kg	
Temperature control		Digital	
Sound level		< 70 DB	
Material housing/plateau Amount of balls for isolation	200	RVS	320
Amount of Dalis for Isolation	200		320

### **LIABILITY**

- 1. We exclude all responsibility inasmuch it is not provided for by law.
- 2. Our liability will never exceed the total amount of the particular order.
- 3. Subject to the generally accepted rules of law concerning public order and good faith, we are not obliged to compensate for damages of any nature, direct or indirect, including operational damages to movable and immovable property or damage to any persons including the contracting party or any third party.
- 4. Under any circumstances we are not responsible for damage that is caused by or is the result of misuse of the equipment as delivered or through using said equipment for any other purpose than for what the contracting party has purchased it.

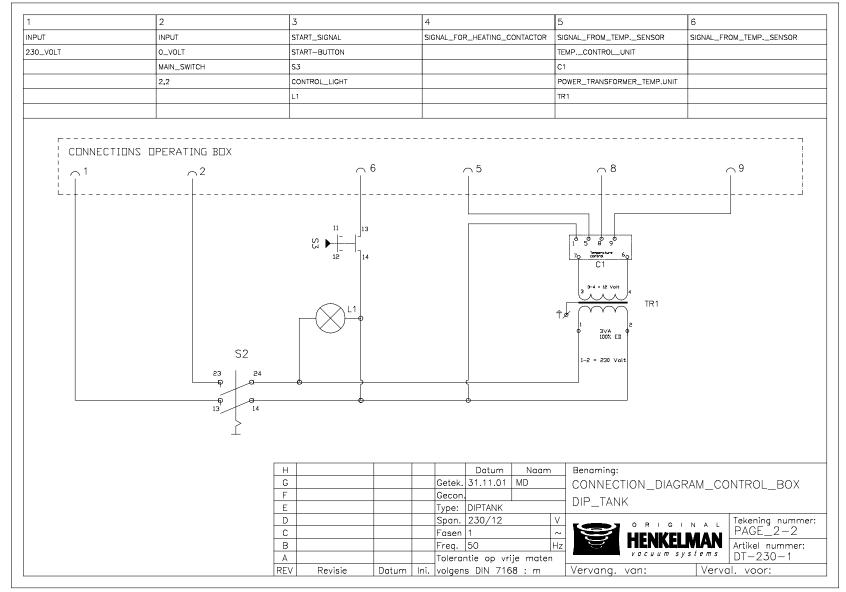
### **GUARANTEE**

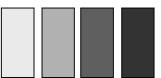
- 1. In compliance with the under mentioned restrictions, we guarantee the equipment as delivered by us for a period of 6 months. This guarantee is limited to those malfunctions occurring due to factory defects, and does not include malfunctions that are caused by any form of wear or tear during use of the equipment or parts as delivered.
- 2. Any parts or attachments that we have received from any third party are not guaranteed for any period longer than the guarantee given us by said third party.
- 3. The guarantee is cancelled if the contracting party or any third party brought in by the contracting party, uses the equipment in an incompetent manner.
- 4. The guarantee is also cancelled if the contracting party or any third party brought in by the contracting party, makes any changes or adjustments to the equipment as delivered.
- 5. If it is necessary to replace any parts in accordance with this guarantee, than all parts replaced become our property.
- 6. If the contracting party fails to fulfill in whole or part of any obligations in compliance with this agreement for any period of time, then we are not bound to the guarantee as long as the situation continues.

The term of warranty and liability are a subdivision of the general sales conditions and are available on request.

# ELEKTRISCH SCHEMA BEDIENINGSKAST ELECTRICAL DIAGRAM CONTROL BOX

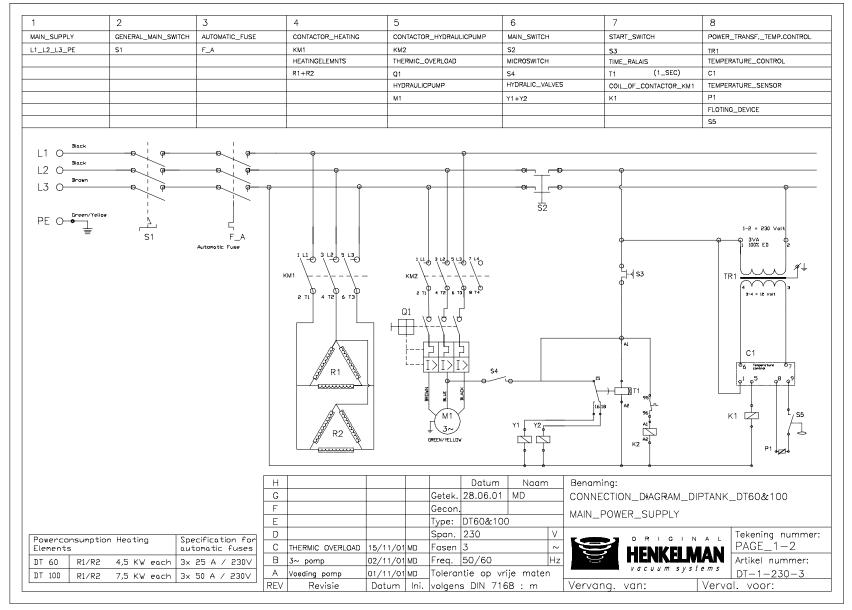
### (230 VOLT)

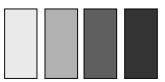




### ELEKTRISCH HOOFDSTROON SCHEMA ELECTRICAL DIAGRAM

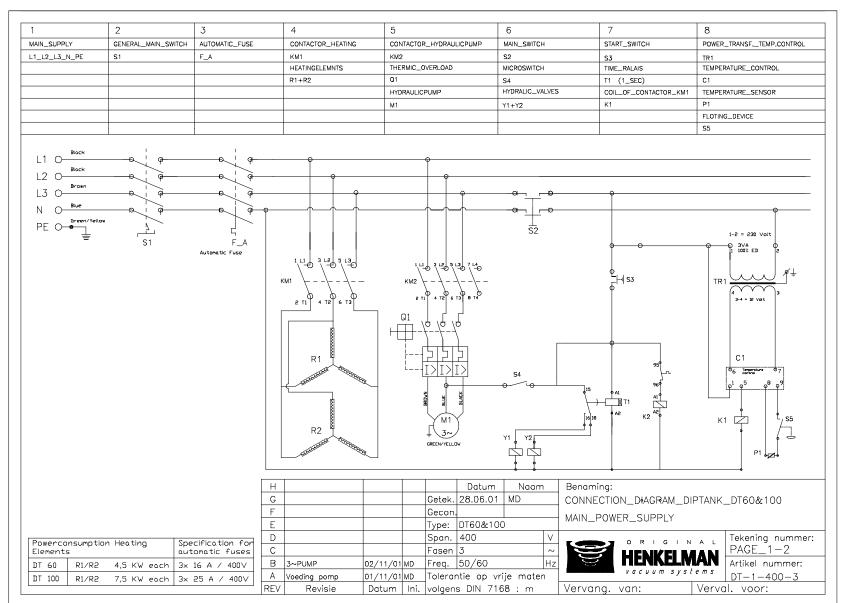
### (230 VOLT 3 Phase)

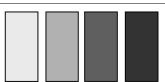




### ELEKTRISCH HOOFDSTROOMSCHEMA ELECTRICAL DIAGRAM

## (400 VOLT 3 Phase + Neutral)





### COMPONENTEN IN DE ELECTROKAST DT 60 230 / 400 VOLT COMPONENTS ELECTRICAL CABINET DT 60 230 / 400 VOLT

- 1 TERMINAL BLOCKS
- 2 CONTACTOR PUMP
- 3 THERMIC OVERLOAD (DEFAULT ADJUSTMENTS)

230 Volt 4 Amp.

400 Volt 3 Amp.

4 TIME RELAIS (DEFAULT ADJUSTMENTS)

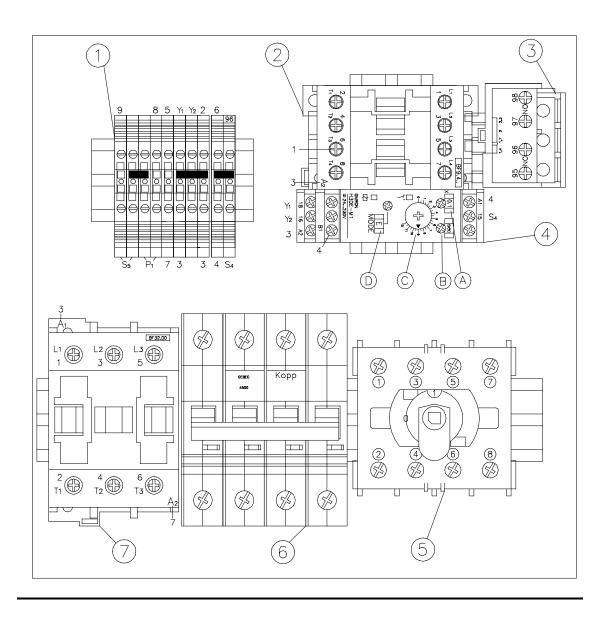
A = 0,1

B = sec

C = 9

D = E

- 5 GENERAL MAIN SWITCH (3 FASE + NEUTRAL)
- 6 AUTOMATIC FUSE (3 FASE + NEUTRAL)
- 7 CONTACTOR HEATING ELEMENTS



### COMPONENTEN IN DE ELECTROKAST DT 100 230 / 400 VOLT COMPONENTS ELECTRICAL CABINET DT 100 230 / 400 VOLT

- 8 TERMINAL BLOCKS
- 9 CONTACTOR PUMP
- 10 THERMIC OVERLOAD (DEFAULT ADJUSTMENTS)

230 Volt 4 Amp.

400 Volt 3 Amp.

11 TIME RELAIS (DEFAULT ADJUSTMENTS)

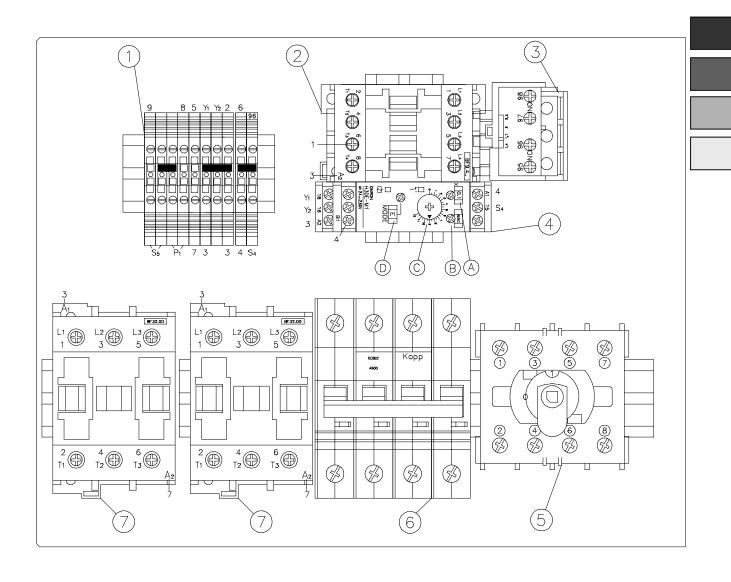
A = 0,1

 $\mathbf{B} = \mathbf{sec}$ 

C = 9

D = E

- 12 GENERAL MAIN SWITCH (3 FASE + NEUTRAL)
- 13 AUTOMATIC FUSE (3 FASE + NEUTRAL)
- 14 CONTACTOR HEATING ELEMENTS



### HYDRAULISCH SCHEMA HYDRAULIC DIAGRAM

