

# BEDIENUNGSANLEITUNG



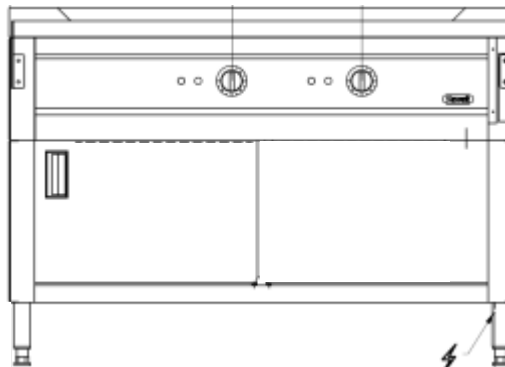
KBS Gastrotechnik GmbH – Schoßbergstraße 26 – 65201 Wiesbaden

# Installation, Operation and Maintenance Instructions

## Teppanyaki Electric

### Model :

|                         |  |
|-------------------------|--|
| <b>TP-12/E</b>          | Die Cast Heater<br>Food Pan-Floor Model        |
| <b>TP-12/E Portable</b> | Die Cast Heater<br>Oil Drip Pan-Portable Model |
| <b>TP-15/E</b>          | Die Cast Heater<br>Food Pan-Floor Model        |
| <b>TP-15/E Portable</b> | Die Cast Heater<br>Oil Drip Pan-Portable Model |



Note: The picture is illustration only. We reserved the right to make technical changes in the interest in progress without prior notice.



## Preface

Dear customer,

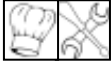


Thank you for choosing our product as your trusted partner. We ensure you that we always give our best as we produce this appliance by using the finest materials. NAYATI Teppanyaki Electric is excellent choice to cook. In order to obtain maximum benefits of this appliance, please read this manual instruction carefully. Please notice the warnings and safety instructions to keep your safety. DO NOT use this appliance except its utility.

If you have any questions or difficulties in operating this appliance, please contact your dealer or NAYATI to acquire mechanic assistance.

**NAYATI TEAM**

# Table of Contents



|  | <b>Page</b> |
|--|-------------|
| Preface .....  | 2           |
| Table of Contents.....                                 | 3           |
| <b>1. General Information</b> .....                    | 4           |
| 1.1 Information for the Reader .....                   | 4           |
| 1.2 Warning, Signs and Symbols .....                   | 4           |
| 1.3 General Information of the Appliance .....         | 5           |
| 1.4 Procedure for Requesting Service and Warranty..... | 6           |
| <b>2. Safety Instruction</b> .....                     | 7           |
| <b>3. Technical Data</b> .....                         | 8           |
| 3. Data Table .....                                    | 8           |
| 3. Data Plate .....                                    | 9           |
| 3. Overall Dimension .....                             | 10          |
| 3. Components List .....                               | 14          |
| <b>4. Handling and Installing</b> .....                | 16          |
| 4.1 Packaging and Transport .....                      | 16          |
| 4.2 Handling and Lifting .....                         | 16          |
| 4.3 Safety Devices and Accessories .....               | 17          |
| 4.4 Position and Fixing .....                          | 17          |
| 4.5 Electric Power Connection .....                    | 17          |
| <b>5. Use and Operation</b> .....                      | 19          |
| 5.1 Warning .....                                      | 19          |
| 5.2 Control Panel Description .....                    | 19          |
| 5.3 Switch ON/OFF .....                                | 20          |
| <b>6. Routine Cleaning and Maintenance</b> .....       | 21          |
| <b>7. Trouble Shooting</b> .....                       | 22          |
| <b>8. General Exclusions</b> .....                     | 23          |
| <b>9. Addresses</b> .....                              | 24          |
| <b>10. Electric Wiring Diagram</b> .....               | on Appendix |

# 1. General Information

## 1.1 Information for the Reader



Please read this manual instruction carefully before operating this appliance.  
To find the specific topics of interest to you quickly, refer to the index at the start of the manual. This manual is written to:



All the information is instructed to general readers, i.e for users of the appliance.



All the information is instructed for special categories of reader, i.e. all skilled operators authorized to handle, transport, install, service, repair and scrap the appliance

The skilled operators may also read the information for the general readers for a more complete picture of the information provided if necessary.

## 1.2 Warning, Signs and Symbols



### 1.2.1 Warning

Warnings are indicated with a pictogram and a signal word.

The type and source of the risk as well as the consequences are described together with instructions for avoiding the danger. The margins of the pictograms and signal words used are explained in section “Signs” and “Symbols”

### 1.2.2 Signs



Electric Shock Hazard or High Voltage

Imminent danger

→ Non-observance leads to death or serious injury (caused by electric shock)



Hot Surface

Dangerous situation

→ Non-observance can lead to slight or semi-serious injury (caused by hot surface)



Warning

Damage

→ Non-observance can lead damage



Pace Maker (Especially for Induction)

Possible Danger

→ Non-observance can lead to death or serious injury



Injury Risk

Possible Danger

→ Non-observance can lead to death or serious injury



PE  
→ Connect wire to the earth



Important  
→ non-observance can lead damage



Note  
→ Note for special appliance



Attention  
→ Non-observance can lead damage



User sign  
→ information must be read by user



Technician sign  
→ information must be read by technician



CE Certification  
→ The appliance have a license of CE Certificate

### 1.2.3 Symbols

| Symbols   | Meaning                     | Explanation                                     |
|---|-----------------------------|---|
| 1.  | Instruction, single step    | Instruction must be followed in the order given |
| 2.  |                             |   |
| <b>Bullet points, such as "1.1", "a", " etc</b> | Instruction, multiple steps | Instruction can be carried out in any sequence  |
| →   | Instruction, multiple steps | An action is required here                      |

## 1.3 General Information of the Appliance



Nayati Teppanyaki Electric is an excellent cooking appliance made of stainless steel. It uses **Mild Steel** of Griddle plate. It is equipped with food pan for floor model and oil drip pan for portable model. The power rate is 11.7 kW and 14.3 kW with die cast heaters. This appliance is especially designed for cooking Japanese cuisine: sautéing. The appliance also equipped with **Safety Thermostat** to adjust the cooking temperature (50<sup>o</sup> C up to 250<sup>o</sup> C). It is very important to keep this instruction book together with the appliance for future consultation. If this appliance sold or transferred elsewhere, make sure this book goes with it. Therefore, the new user can read about its functions and other relevant information.

## **1.4 Procedure for Requesting Service and Warranty**



### **1.4.1 Requesting Service**

Contact one of the authorized service centers or NAYATI for all requirements. When requesting service, state the data provide on the nameplate and provide a description of the fault.

### **1.4.2 Warranty**

NAYATI gives 12 months guarantee with certain conditions. NAYATI will decline any claims of accidents caused by improper use, disobey rules, and/ or disobey warnings. Below are cases, which invalidate the guarantee:

1. Improper use by untrained person(s)
2. Disobey local regulation(s) related to installation and safety standards
3. Not doing routine maintenance
4. Replace certain parts with non-genuine spare part
5. Do not follow the manual instructions properly


If you have any doubts or questions related to our product, please call your nearest dealer or call NAYATI.

## 2. Safety Instruction



**Important!** Before installing, place the appliance on solid, flat, stable and horizontal surface and connection availability.

Read this manual instruction carefully before using NAYATI Teppanyaki Electric. Below are safety instructions that strictly conformed:

1. Improper installation, maintenance, cleaning, or modification to the appliance could lead to severe injury or death and could damage the appliance.
2. The mechanics must instruct staff regularly to avoid accident and damage of the appliance.
3. NAYATI Teppanyaki Electric may be used for skilled staff only.
4. DO NOT place the appliance in a toxic area or have a risk of explosion.
5. DO NOT place the appliance near flammable materials such gasoline, fat, clothes, liquid gas, paper, etc.
6. DO NOT place the appliance in wet or humid room or condition such in rain or near water leaks, etc.
7. DO NOT use the appliance for drying clothes, paper, or living animals.
8. DO NOT use the appliance to heat non-food products.
9. Put the appliance in a good ventilated room.
10. Before cleaning or maintaining the appliance, detach the gas/electric line and allow it to cool.
11. DO NOT touch the area  this sign means hot surface. Beware of severe burning injury.
12. DO NOT attempt to dismantle or repair the appliance. The authorized mechanics must do all jobs.



### **ELECTRIC SHOCK HAZARD!**

- Authorized and qualified mechanic can do the maintenance and repairs.
- Turn OFF and disconnect the appliance before opening front panel and accessing electrical area inside the appliance.



### **INJURY RISK!**

- Avoid Electric Teppanyaki installation next to fat Fryer.
- Water could splash into the Fryer and may injure the user.
- It is recommended to keep a safe distance between Electric Teppanyaki and other kitchen equipment like Fryer.



## 3. Technical Data

### 3.1 Data Table



#### 3.1.1 Technical Specification of Teppanyaki Electric TP-12E

Table 1 :

| Technical Specification           |                               |       |         |                               |       |         |
|-----------------------------------|-------------------------------|-------|---------|-------------------------------|-------|---------|
| Model                             | TP-12/E (J)                   |       |         | TP-12/E Portable (J)          |       |         |
| Overall Dimension (mm)            | Width                         | Depth | Height  | Width                         | Depth | Height  |
|                                   |                               | 1200  | 770/895 | 850                           | 1200  | 770/895 |
| Griddle Plate Dimension (mm)      | 960                           | 550   | 20      | 960                           | 550   | 20      |
| Working Temperature (°C)          | 50 – 250                      |       |         | 50 – 250                      |       |         |
| Number of Heaters                 | 9 Die Cast Heaters            |       |         | 9 Die Cast Heaters            |       |         |
| Electric Consumption              | (9 x 1.3 kW)<br>Total 11.7 kW |       |         | (9 x 1.3 kW)<br>Total 11.7 kW |       |         |
| Electric Connection               | 3N AC 400V 50/60Hz            |       |         | 3N AC 400V 50/60Hz            |       |         |
| Required Electrical Supply (amps) | 18                            |       |         | 18                            |       |         |
| Direct Heat Emission (kW)         | 3.8                           |       |         | 3.8                           |       |         |
| Latent Heat Emission (kW)         | 4.68                          |       |         | 4.68                          |       |         |
| Steam Emission (Kg/h)             | 6.87                          |       |         | 6.87                          |       |         |

#### 3.1.2 Technical Specification of Teppanyaki Electric TP-15E

Table 2 :

| Technical Specification           |                                |       |         |                                |       |         |
|-----------------------------------|--------------------------------|-------|---------|--------------------------------|-------|---------|
| Model                             | TP-15/E (J)                    |       |         | TP-15/E Portable (J)           |       |         |
| Overall Dimension (mm)            | Width                          | Depth | Height  | Width                          | Depth | Height  |
|                                   |                                | 1440  | 770/895 | 850                            | 1440  | 770/895 |
| Griddle Plate Dimension (mm)      | 1200                           | 550   | 20      | 1200                           | 550   | 20      |
| Working Temperature (°C)          | 50 – 250                       |       |         | 50 – 250                       |       |         |
| Number of Heaters                 | 11 Die Cast Heaters            |       |         | 11 Die Cast Heaters            |       |         |
| Electric Consumption              | (11 x 1.3 kW)<br>Total 14.3 kW |       |         | (11 x 1.3 kW)<br>Total 14.3 kW |       |         |
| Electric Connection               | 3N AC 400V 50/60Hz             |       |         | 3N AC 400V 50/60Hz             |       |         |
| Required Electrical Supply (amps) | 24                             |       |         | 24                             |       |         |
| Direct Heat Emission (kW)         | 4.7                            |       |         | 4.7                            |       |         |
| Latent Heat Emission (kW)         | 5.72                           |       |         | 5.72                           |       |         |
| Steam Emission (Kg/h)             | 8.41                           |       |         | 8.41                           |       |         |

### 3.2 Data Plate



#### 3.2.1 Technical plate reports the current setting.

|                |                  |   |                              |  |
|----------------|------------------|---|------------------------------|--|
| <b>Nayati</b>  |                  | PT NAYATI INDONESIA<br>Jl. Raya Terboyo 19<br>Semarang - 50112<br>Indonesia | Proudly assembled by<br>XXXX | CE                                       |
| Model          | TP-12/E (J)      |   |                              | *For professional use. Made in Indonesia |
| Art. No        | TP-12/E (J)      |   |                              |  |
| SN             | XXXXXXXXXX       |   |                              |  |
| Supply Voltage | 400V 3N 50/60 Hz |   |                              |  |
| kW.            | 11.7             |   |                              |  |

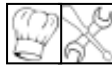
Fig. 1

|                |                      |   |                              |  |
|----------------|----------------------|---|------------------------------|--|
| <b>Nayati</b>  |                      | PT NAYATI INDONESIA<br>Jl. Raya Terboyo 19<br>Semarang - 50112<br>Indonesia | Proudly assembled by<br>XXXX | CE                                       |
| Model          | TP-12/E Portable (J) |   |                              | *For professional use. Made in Indonesia |
| Art. No        | TP-12/E Portable (J) |   |                              |  |
| SN             | XXXXXXXXXX           |   |                              |  |
| Supply Voltage | 400V 3N 50/60 Hz     |   |                              |  |
| kW.            | 11.7                 |   |                              |  |

|                |                  |   |                              |  |
|----------------|------------------|---|------------------------------|--|
| <b>Nayati</b>  |                  | PT NAYATI INDONESIA<br>Jl. Raya Terboyo 19<br>Semarang - 50112<br>Indonesia | Proudly assembled by<br>XXXX | CE                                       |
| Model          | TP-15/E (J)      |   |                              | *For professional use. Made in Indonesia |
| Art. No        | TP-15/E (J)      |   |                              |  |
| SN             | XXXXXXXXXX       |   |                              |  |
| Supply Voltage | 400V 3N 50/60 Hz |   |                              |  |
| kW.            | 14.3             |   |                              |  |

|                |                      |   |                              |  |
|----------------|----------------------|---|------------------------------|--|
| <b>Nayati</b>  |                      | PT NAYATI INDONESIA<br>Jl. Raya Terboyo 19<br>Semarang - 50112<br>Indonesia | Proudly assembled by<br>XXXX | CE                                       |
| Model          | TP-15/E Portable (J) |   |                              | *For professional use. Made in Indonesia |
| Art. No        | TP-15/E Portable (J) |   |                              |  |
| SN             | XXXXXXXXXX           |   |                              |  |
| Supply Voltage | 400V 3N 50/60 Hz     |   |                              |  |
| kW.            | 14.3                 |   |                              |  |

### 3.3 Overall Dimension



TP-12/E (J)

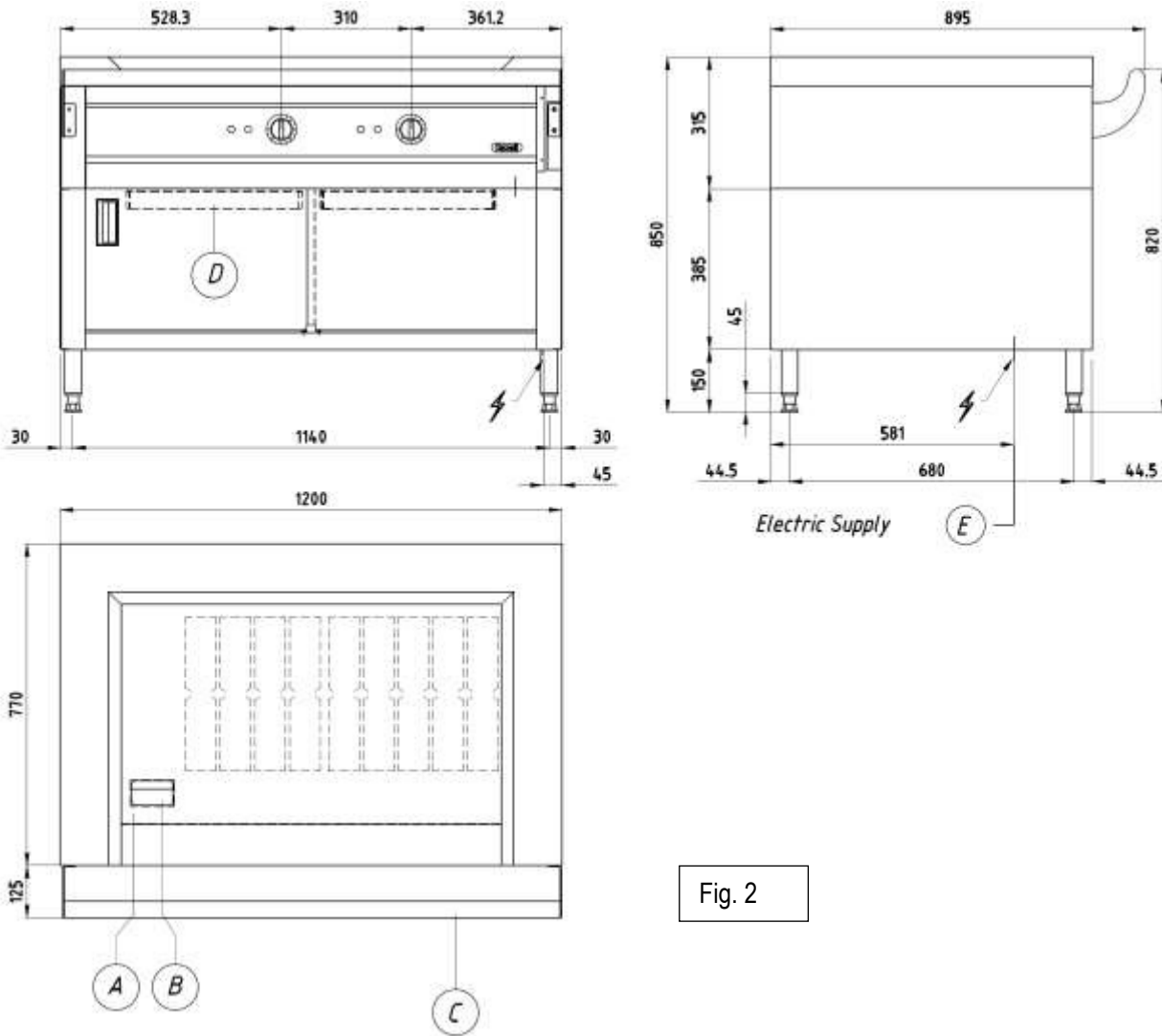


Fig. 2

TP-12/E Portable (J)

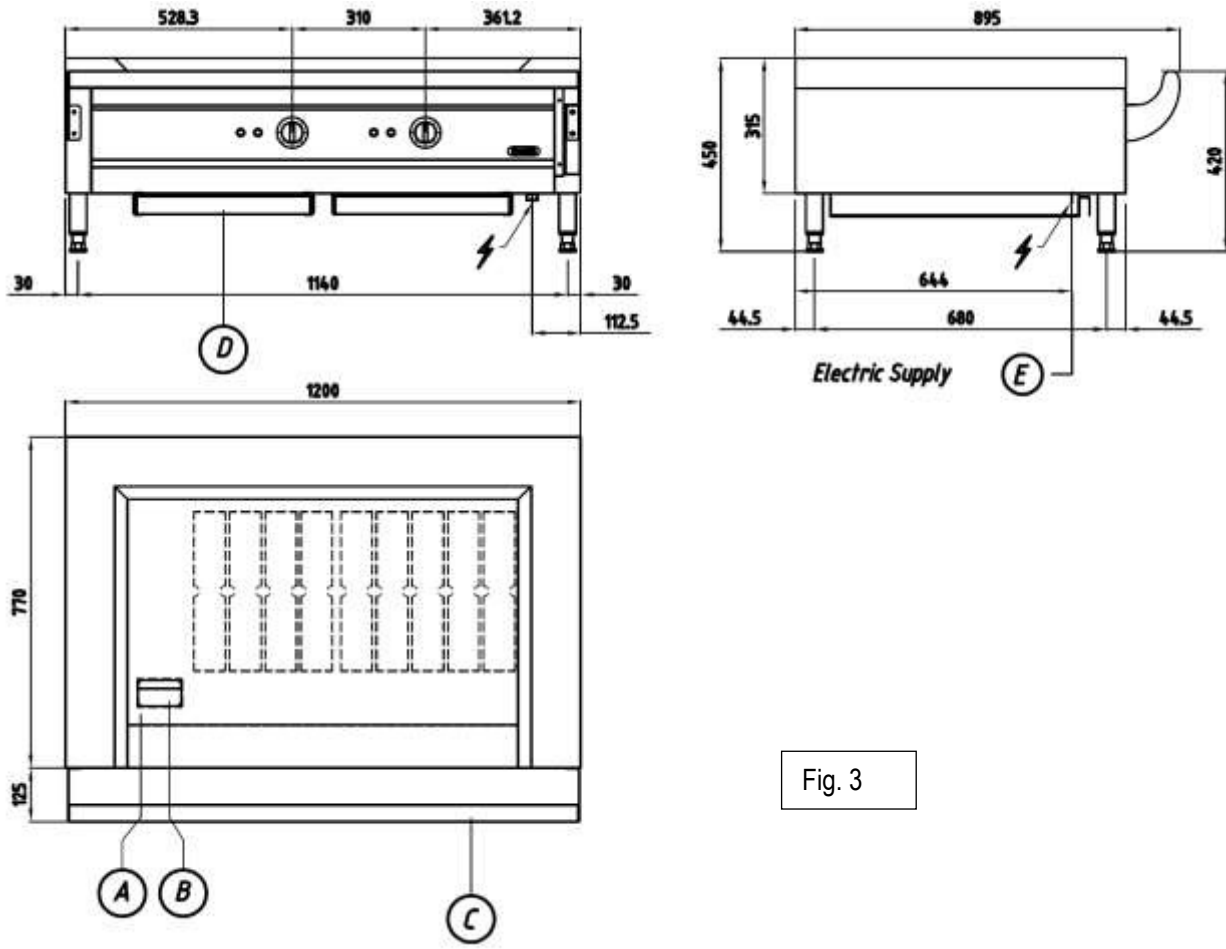


Fig. 3

TP-15/E (J)

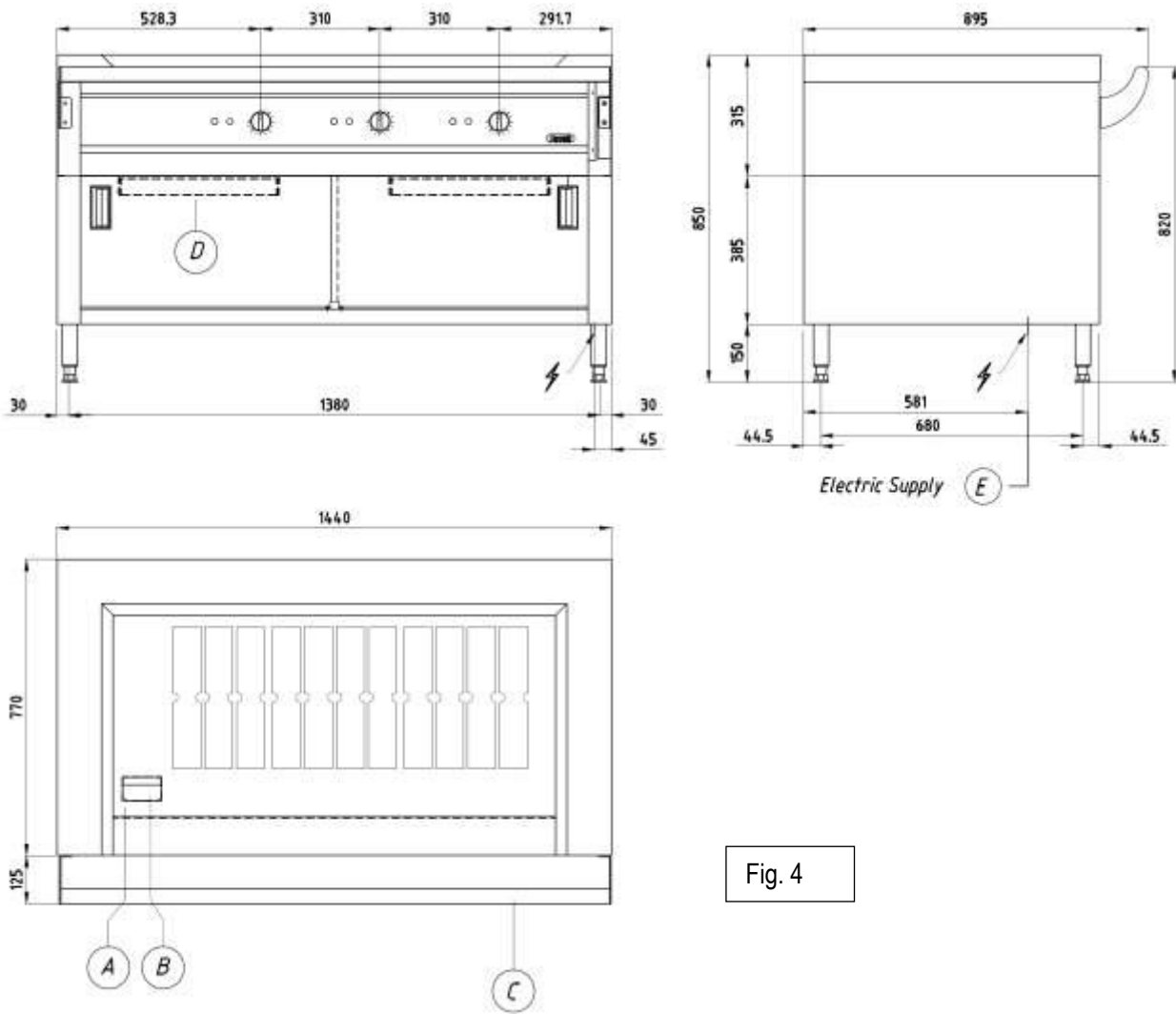


Fig. 4

TP-15/E Portable (J)

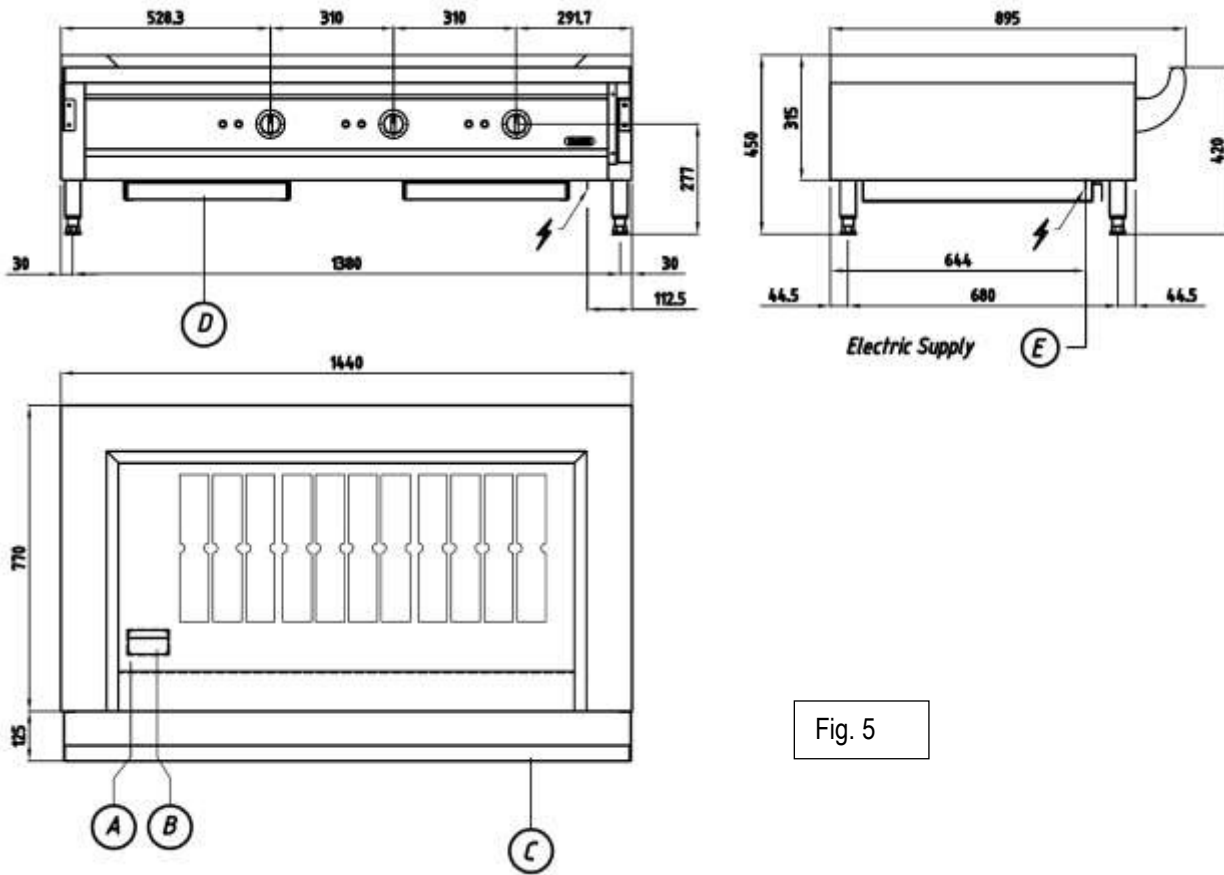


Fig. 5

### 3.4 Component List



#### 3.4.1 TP-12/E (J), TP-15/E (J)

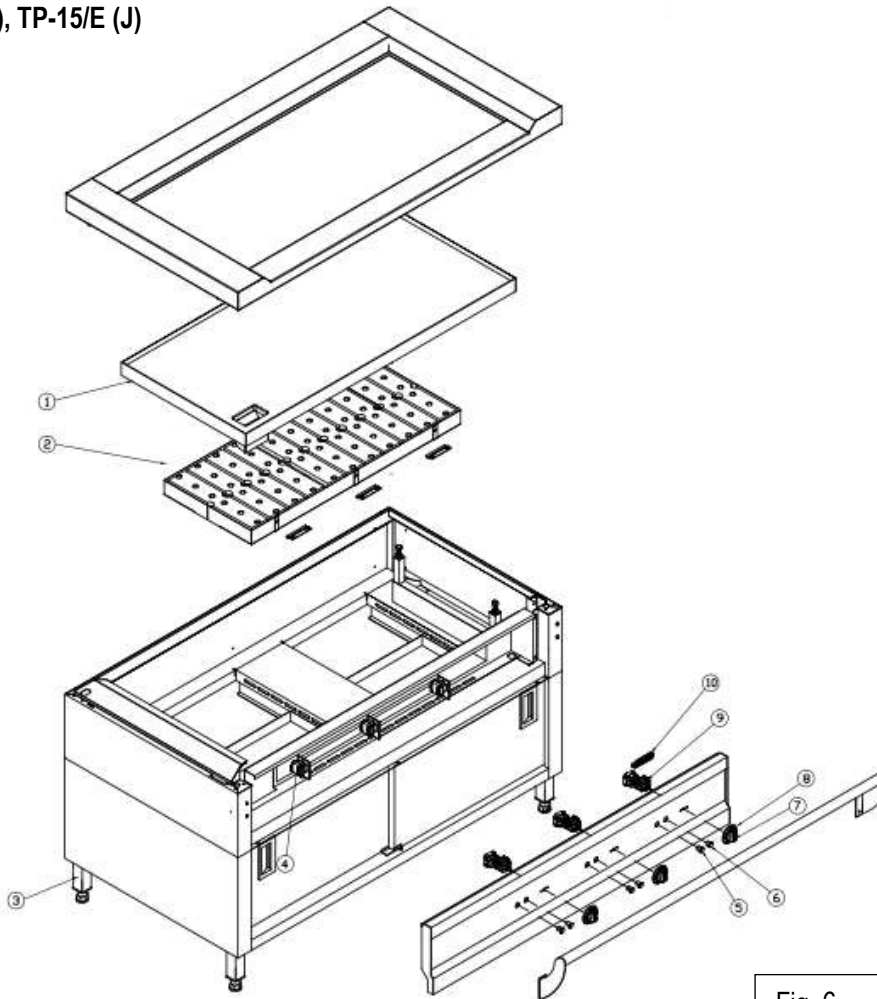


Table 3 :

Fig. 6

| NO. | PART CODE   | DESCRIPTION                             | QUANTITY TP-12/E | QUANTITY TP-15/E |
|-----|-------------|---|------------------|------------------|
| 1   | GS.4082D-1  | Assy.Electric Griddle Plate TP-12/E (J) | 1                | -                |
|     | GS.4083E    | Assy.Electric Griddle Plate TP-15/E (J) | -                | 1                |
| 2   | PD.211J     | Die Cast Heater 1.3 kW/ 230V            | 9                | 11               |
| 3   | SS.2016     | Adjustable Legs 40x40mm grey polyamide  | 4                | 4                |
| 4   | PD.412GA    | SaFeTy Thermostat                       | 2                | 3                |
| 5   | PD.414KB-1  | Pilot Light 230V Green                  | 2                | 3                |
| 6   | PD.414JB-1  | Pilot Light 230V Yellow                 | 2                | 3                |
| 7   | PD.G021A    | Nayati Electric Knob                    | 2                | 3                |
|     | PD.G024     | Seal F/Electric Knob                    | 2                | 3                |
| 8   | PD.G021A-12 | Ring Electric Knob 50-250° C            | 2                | 3                |
| 9   | PD.412CG    | Thermostat w/ on-off                    | 2                | 3                |
|     | PD.412Q-1   | Rotary Switch (0-1)                     | 2                | 3                |
|     | PD.E041     | Connecting Box                          | 2                | 3                |
| 10  | SS.2039     | Terminal Power                          | 1                | 1                |

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### 3.4.2 TP-12/E Portable (J), TP-15/E Portable (J)

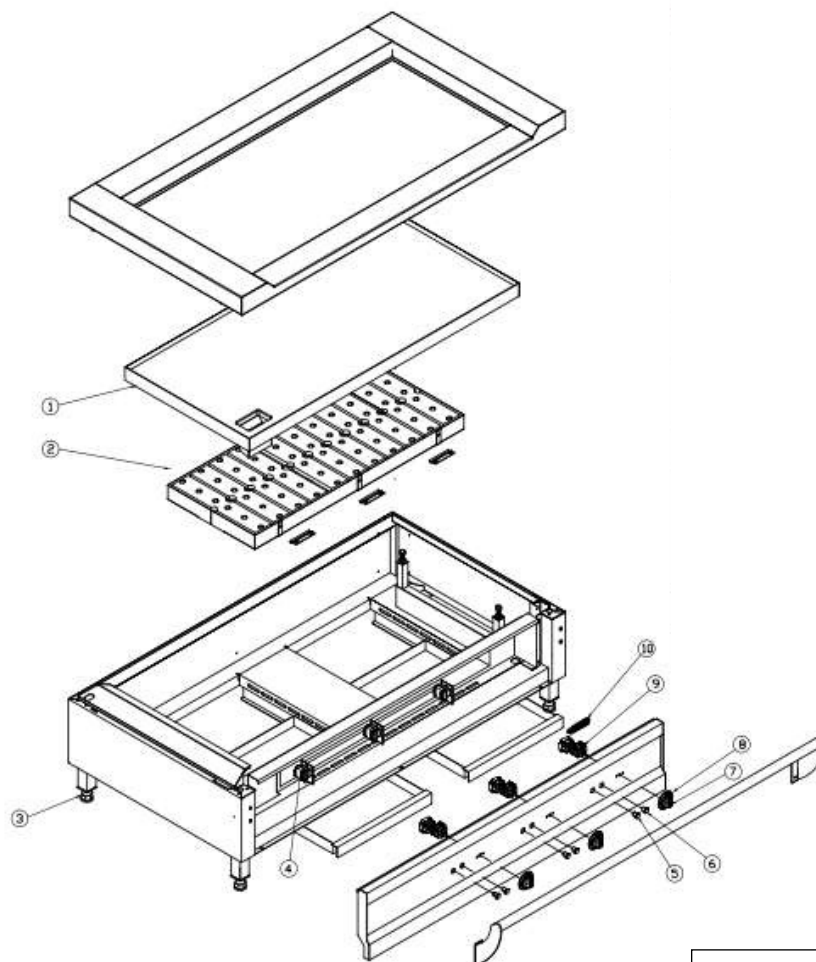


Fig. 7

Table 4 :

| NO. | PART CODE   | DESCRIPTION                                | QUANTITY<br>TP-12/E | QUANTITY<br>TP-15/E |
|-----|-------------|--|---------------------|---------------------|
| 1   | GS.4082D-1  | Assy.Electric Griddle Plate<br>TP-12/E(I)  | 1                   | -                   |
|     | GS.4083E    | Assy.Electric Griddle Plate<br>TP-15/E (I) | -                   | 1                   |
| 2   | PD.211J     | Die Cast Heater 1.3 kW/<br>230V            | 9                   | 11                  |
| 3   | SS.2016     | Adjustable Legs 40x40mm<br>grey polyamide  | 4                   | 4                   |
| 4   | PD.412GA    | Safety Thermostat                          | 2                   | 3                   |
| 5   | PD.414KB-1  | Pilot Light 230V Green                     | 2                   | 3                   |
| 6   | PD.414JB-1  | Pilot Light 230V Yellow                    | 2                   | 3                   |
| 7   | PD.G021A    | Nayati Electric Knob                       | 2                   | 3                   |
|     | PD.G024     | Seal F/Electric Knob                       | 2                   | 3                   |
| 8   | PD.G021A-12 | Ring Electric Knob<br>50-250° C            | 2                   | 3                   |
| 9   | PD.412CG    | Thermostat w/ on-off                       | 2                   | 3                   |
|     | PD.412Q-1   | Rotary Switch (0-1)                        | 2                   | 3                   |
|     | PDE041      | Connecting Box                             | 2                   | 3                   |
| 10  | SS.2039     | Terminal Power                             | 1                   | 1                   |

FRM-PDE-03-04 (NYT/R&D/20201023)



## 4. Handling and Installing



**Important!** Before installing, place the appliance on solid, flat, stable and horizontal surface and connection availability.

The following instructions are intended for authorized and qualified installer. Before doing installation, adjustment, and maintenance operations, the installer must follow local and legal regulations. Cut the gas/electric supply before doing any installation.

1. This appliance is using electric power. Electric services should be installed according to:
  - a. Local and international standards
  - b. Local recommendations related to building standards and codes
  - c. Directions and regulations from power supply companies
  - d. Regulation concern with prevention accident measures
  - e. Fire prevention regulations
  - f. Applicable I.E.C (International Electro technical Commission) regulations
2. Remove all packaging material and protective coatings.
3. Ensure electric power supply is sufficient to operate this appliance.
4. Before testing, put the appliance in a good ventilated room and keep all flammable material away.
5. Before cleaning or maintaining the appliance, please cut off electric power and isolate gas supply (if any) to the safe place.

### 4.1 Packaging and Transport



#### 4.1.1 Packaging

The packaging is designed to reduce space and as appropriate to the type of transport used. To simplify transport, some components may be removed and suitably protected and packed for transport.

The packaging carries all information necessary for loading and unloading. When unpacking, check that all components are present in the correct quantities and are undamaged. The packaging material must be properly disposed of in accordance with legal requirements.

#### 4.1.2 Transport

Different means of transport may be used, depending partly on the destination.

During transport, fix the packaging to the means of transport securely to prevent undesirable shifting.

### 4.2 Handling and Lifting



The appliance can be handled using fork-lift or hook equipment of suitable load-carrying capacity. Before lifting, check the position of the load's centre of gravity.



**Important!** When engaging with the lifting equipment, watch out for the gas/electric supply.

### 4.3 Safety Devices and Accessories



The appliance is provided with safety devices. The additional devices must be added if necessary to comply with the relevant legal requirement during the installation. There are food pan and power cable as accessories for these appliances.

 **Important!** Make the daily check that the safety devices are properly install and in good working order.

### 4.4 Position and Fixing





1. Authorized personnel must do the installation.
2. Install the appliance according to National Safety Standard about electric-heated standard.
3. Install the appliance under an extractor fan to remove the cooking fumes.
4. Make sure that any object around or under Teppanyaki Electric does not obstruct air volume required for air circulation.
5. Put away any flammable materials near Teppanyaki Electric.
6. When the appliance is freestanding, keep a distance at least 10 cm from side, and rear walls. Especially when the appliance close to wall and does not protected with fire-resistant materials made.
7. Install the appliance separately or side by side with other appliance according to recommended range.
8. Put Teppanyaki Electric on solid, flat, and horizontal surface.
9. Adjust the height of the four feet by using brackets.
10. Before turn the appliance ON, remove the protective film. Remove any adhesive with appropriate solvent.
11. Eliminate all packaging material according to national laws.

### 4.5 Electric Power Connection



1. Before connecting the appliance to the main supply, compare the electrical data in the rating plate (on the appliance side panel) to the local electric energy supply. Make sure the main voltage correspond to the voltage indicated on the nameplate of the appliance.
2. Registered installation companies must do the electric installation concerned with certain local and national regulations. The companies are responsible for interpret all regulation and perform the installation and safety instructions. The warning signs and nameplates must strictly conform.
3. The appliance equipped with a power terminal and connected with power cable and power socket.
4. DO NOT put the power cable near heat sources or water leakage area.

|   |  |
|---|--|
|  | <p style="text-align: center;"><b>WARNING!</b></p> <p>To avoid electric shock, it is necessary to have earth connection. You can find the earth connection at the terminal boards, identified with  symbol to where earth wire has to connect.</p> |
|---|--|



**WARNING!**

Incorrect voltage may damage the appliance.

- **TP-12/E (J) (3N AC 400V 50/60Hz 11.7kW)**
- **TP-12/E Portable (J) (3N AC 400V 50/60Hz 11.7kW)**
- **TP-15/E (J) (3N AC 400V 50/60Hz 14.3kW)**
- **TP-15/E Portable (J) (3N AC 400V 50/60Hz 14.3kW)**

## 5. Use and Operation

### 5.1 Warning



This appliance is an electrical cooker for professional use. It shall be used by authorized people only. Before starting, please make sure that the appliance is in good condition and put it in a good ventilated room. Below are several preliminaries warning that strictly conformed:

1. If there is a persistent breakdown, please contact authorized mechanic.
2. User is only responsible for daily routine cleaning for maintenance.
3. Qualified mechanics must do all operations related to installation and maintenance according to Regulation in force.
4. Use this Teppanyaki Electric only for COOKING JAPANESE CUISINE: SAUTÉING. DO NOT use the Teppanyaki Electric for other purposes. Any other uses may be considered as improper and dangerous use. Please control the appliance when operating.
5. Before operating Teppanyaki Electric for the first time, carefully clean the appliance to remove industrial oil/ lubricant.
6. After using the Teppanyaki Electric, turn the knob to OFF position.

### 5.2 Control Panel Description

#### 5.2.1 For example: TP-12/E (J)

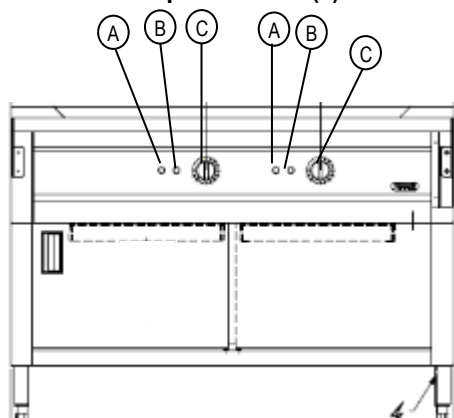
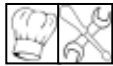


Fig. 8

- A : Green Pilot Lamp**  
to indicates the appliance is ON / OFF
- B : Yellow Pilot Lamp**  
to indicates the heating process is working
- C : Thermostat Control Knob**  
to turn ON / OFF and adjust the cooking level temperature.

### **5.3 Switch ON/OFF**



#### **5.3.1 Turn the Appliance ON**

1. Turn the Thermostat Control Knob to the right. The Green Pilot Lamp will light indicate that the appliance is ready to use.
2. Turn the Thermostat Control Knob to the right again to increase the temperature. The Yellow Pilot Lamp will light to indicate the heating process is working. The temperature range is 50<sup>0</sup> C up to 250<sup>0</sup> C.
3. When the set temperature has reached, the Yellow Pilot Lamp will be OFF. If the temperature decreases, the lamp will light again.

#### **5.3.2 Turn the Appliance OFF**

1. Turn Thermostat Control Knob to zero (0) position.
2. The Green Pilot Lamp will OFF to indicate the appliance is OFF.

## 6. Routine Cleaning and Maintenance



Clean the appliance to keep the functionality and durability. In the case of any failures, do not attempt to solve the problem but call your dealer immediately to ask for help. Do not attempt to dismantle the appliance, specialized mechanics must do all job.

For routine cleaning process, please follow procedure below and notice the warning:

1. Make sure thermostat control knob is OFF position and the circuit-breaker to disconnect it from the electrical mains is OFF.
2. Let the appliance cool.
3. Clean the steel part daily with warm soapy water, rinse and dry thoroughly. Please make sure that the cleaning product does not contain Chlorine (bleach, hydrochloric acid, etc), using steel wool, brushes, or scrappers that could leave ferrous particles. These materials could oxidize and causes rust on the appliance.
4. Spread a suitable degreaser on the plate and leave it to act for a few minutes.
5. Clean the plate thoroughly with a sponge, rinse with plenty of water and dry
6. DO NOT leave acid food such as vinegar, salt, lemon, etc on the stainless steel parts because it can ruin them.
7. NEVER wash the appliance with direct high-pressure jet water.
8. If the cooker will not used for a long time, briskly rub the steel part slightly with a damp cloth and Vaseline oil. After that, wrap with protective film and put the appliance in a good ventilated room.



### ATTENTION!

! If you find the lighting and control devices are difficult to use, please contact the manufacturer immediately, which will provide you necessary assistance or call NAYATI dealer.

! Please check the appliance periodically for 6 months. Contact your dealer that will supply assistance to repair and set interval.

! Authorized and qualified personnel must do all service.

## 7. Trouble Shooting



Table 5 :

| NO. | PROBLEM   | CAUSE   | CORRECTIVE ACTION   |
|-----|---|---|---|
| 1.  | Thermostat does not function                      | Thermostat damaged  | Check and replace. Check Thermostat when adjusting temperature, Pin 1 and 2 must be connected.                      |
| 2.  | Thermostat with ON / OFF switch does not function | ON / OFF switch damaged   | Check and replace. Check Thermostat when turned ON, Pin 5 and P5 must be connected. Pin 6 and P6 must be connected. |
| 3.  | Pilot lamp does not function                      | Pilot lamp damaged  | Check and replace   |
|     |   | No electric current between Thermostat and Pilot lamp                   | Check and repair  |
| 4.  | Heating element does not function                 | Heating element damaged   | Check and replace   |
|     |   | No electric current between heating element, Thermostat, and Pilot lamp | Check and repair  |
| 5.  | Griddle's temperature cannot raise / heat up      | Heating element damaged   | Check and replace   |
|     |   | No electric current between heating element, Thermostat, and Pilot lamp | Check and repair  |
| 6.  | Griddle leaves Black Particle                     | Cleaning not done properly  | Repair re-season if possible otherwise replace griddle  |
|     |   | Griddle are unused for a long time and exposed to oxidation             |   |

## 8. General Exclusions

### GENERAL EXCLUSIONS

- Damage to control knobs and buttons.
- Discoloration of components due to heat.
- Drainage does not meet requirements.
- Lubrication of moving parts.
- Corrosion caused by the use of chemical cleaners.
- Replacement of components due to internal contamination as a result of spillage or accumulation of grease/food debris due to a lack of cleaning.
- Cabinet, drawer and door seals are considered consumable items and will not be replaced under warranty.
- Light bulbs, lens covers and sticker display are considered consumable items and will not be replaced under warranty.
- Enamel coated components if impacted sufficiently will crack or chip, such damage is not covered by the terms of this warranty.
- Rectification where non-Nayati specified parts have been used.
- Where user error is established.

### Gas general

- Poor combustion caused by lack of cleaning.
- Failure of components directly linked to poor cleaning and/or maintenance.
- Cleaning of burners jets.
- Cleaning/adjustment of pilots and thermocouples.
- Correction of gas pressure to the appliance.
- Renewing of gas supply fittings external to the appliance.

### Electrical general

- Resetting of safety devices including fuses where no other fault exists.
- Renewing of supply cable ends.

### Fryers

- Replacement of components damaged by cooking oils due to a lack of cleaning and care when replacing oil.
- Damage to thermostats.

### Steamers

- Corrosion caused by high water hardness.
- Damage resulting from lack of water flow to the unit.

### Induction

- Chipped or damaged glass not reported at time of delivery.
- Damage due to blocked or missing air filters.
- Damage to the generator due to wrong pan type/size used.

### Gas Charcoal grills and salamanders

- Impact damage caused by the user due to misuse outside of the design scope.

### Chargrill Radiant covers

- Radiant covers are considered consumable items and may corrode if not regularly cleaned due to prolonged contact with salt and fats and will not be replaced under warranty.
- Damage to heaters due to failure to replace radiant covers is not covered by the warranty.

### Heated and chilled food displays

- Chipped or damaged glass not reported at time of delivery.
- Damage to components resulting from restricted airflow to inlets and outlet.
- Damage to components resulting from accumulation of airborne particles.
- Condensation on cold surfaces if units are installed in environments beyond specification.

### Dishwashing

- Corrosion caused by high water hardness.
- Chemical pump due to misuse chemical agent.
- Washing accessories : basket, curtain.
- Malfunction caused by high water hardness.



## 9. Addresses



### Head Office

Jl. Raya Terboyo No. 19  
Kawasan Industri Terboyo Megah  
Semarang 50112, Central Java  
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F +62 24 6580 572  
E [nayati@nayati.com](mailto:nayati@nayati.com)  
Service Center  
S +62 815 7575 7692

### Branch Offices

#### Local Offices:

- **JAKARTA**  
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T +62 21 384 6688  
F +62 21 3890 1315  
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- **BANDUNG**  
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Kec.Regol, Bandung 40254,  
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F +62 22 730 3336  
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- **SEMARANG**  
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Semarang 50133, Indonesia  
T +62 24 845 6011 – 845 6022  
F +62 24 845 6770  
E [resto.smg@restomart.com](mailto:resto.smg@restomart.com)
- **SURABAYA**  
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F +62 31 503 1933  
E [resto.sby@restomart.com](mailto:resto.sby@restomart.com)
- **DENPASAR**  
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T +62 361 418 921  
F +62 361 503 1933  
E [resto.dps@restomart.com](mailto:resto.dps@restomart.com)

#### International Offices:

- **SINGAPORE**  
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627A Aljunied Road, #07-02  
Biztech Centre  
Singapore 389842  
T +65 67471105  
E [nayati@singnet.com.sg](mailto:nayati@singnet.com.sg)
- **JIANGMEN**  
Nayati Jiangmen Trading Ltd 88,  
Hong Xing Road, Block 3,  
Phai Shi Feng Shan Industrial Park,  
Third Floor, Jiangmen City,  
Guangdong. Postal Code 529000  
People's Republic of China  
T +(86)750 – 3229028 / 3229218  
F +(86)750 - 3221208

|                    |   |             |
|--------------------|---|-------------|
| Type               | : | TP 12 E (J) |
| Voltage            | : | 3N-400V     |
| Frequency          | : | 50/60Hz     |
| Power Consumption: |   | 11.7kW      |
| Gas Consumption    | : |             |
| Current            | : | 18A         |

electrical documentation

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PT.NAYATI INDONESIA

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 12 E (J)

3N-400V

11.7kW

18A

50/60Hz

Drawing Nr.

444

Created Date

5/2/2016

Rev Nr.

001

Rev Date

12/26/2017

Project:

Electric

Drawn

Mario

All Page

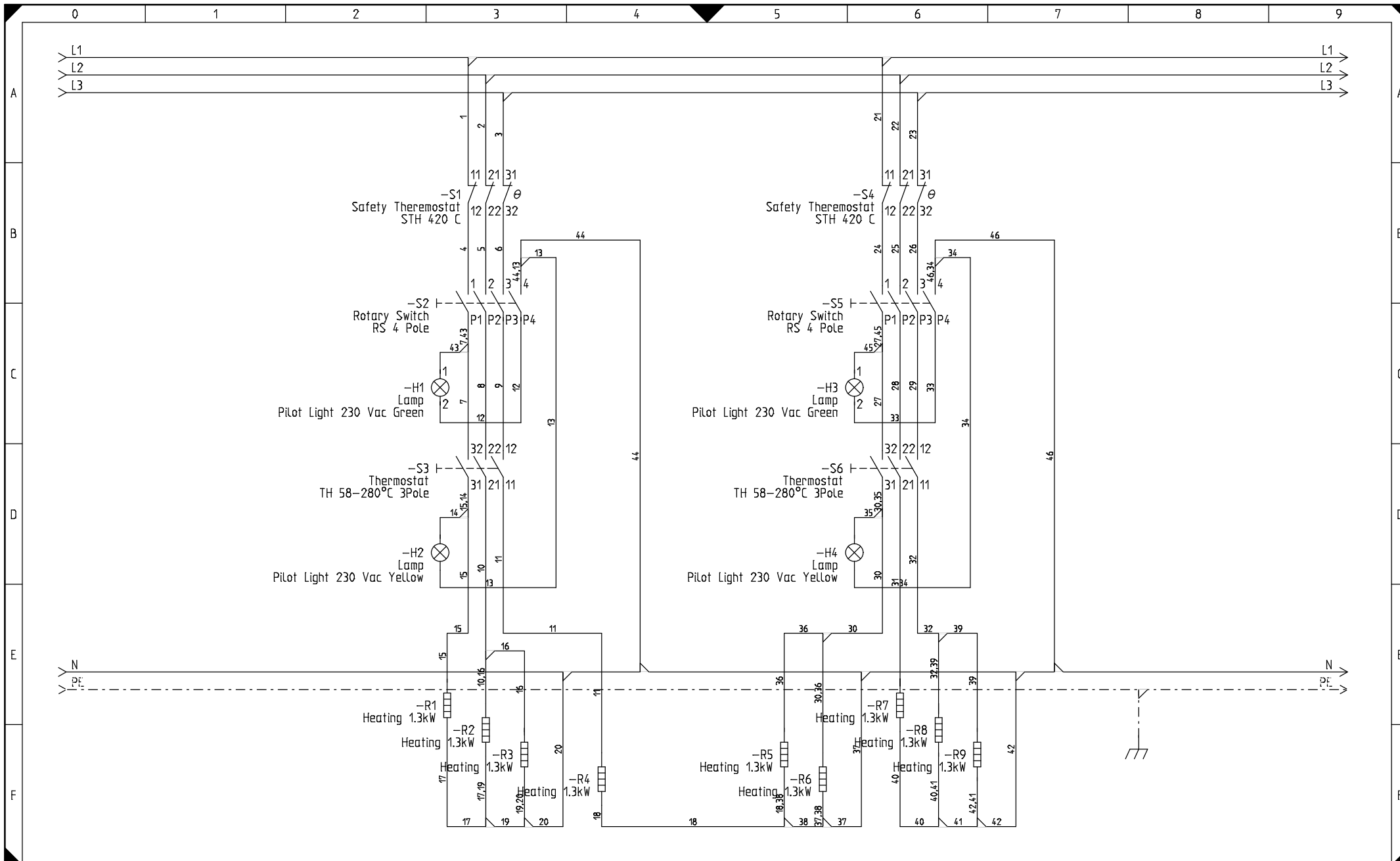
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Page

1

Next Page

2




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|--|---|--------------------|--------|-----|-------------|--------------|----------|----------|
|  | <b>PT.NAYATI INDONESIA</b><br>Jl.Raya Terboyo No.19<br>Kawasan Industri Terboyo Megah<br>Semarang 50112 | <b>TP 12 E (J)</b> |        |     | Drawing Nr. | Created Date | Project: | Page     |
|  |   | 3N-400V            | 11.7kW | 18A | 444         | 5/2/2016     | Electric | 2        |
|  |   | 50/60Hz            |        |     | Rev Nr.     | Rev Date     | Drawn    | All Page |
|  |   |                    |        | 001 | 12/26/2017  | Mario        | 2        |          |

# List of Products

| Product | Type                       | Description        | Document type    | Sheet | Path |
|---------|----------------------------|--------------------|------------------|-------|------|
| -H1     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 3    |
| -H2     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 3    |
| -R1     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -R2     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -R3     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -S1     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 3    |
| -S2     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 3    |
| -S3     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 3    |
| -R4     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R5     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -R6     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -H3     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 6    |
| -H4     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 6    |
| -R7     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -R8     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -R9     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -S4     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 6    |
| -S5     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 6    |
| -S6     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 6    |
|         |                            |                    |                  |       |      |
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## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -S1:11 | L1     | Heat Resistance Cable | 1   | WHT    | 2.5  |
| -S1:21 | L2     | Heat Resistance Cable | 2   | WHT    | 2.5  |
| -S1:31 | L3     | Heat Resistance Cable | 3   | WHT    | 2.5  |
| -S2:1  | -S1:12 | Heat Resistance Cable | 4   | WHT    | 2.5  |
| -S2:2  | -S1:22 | Heat Resistance Cable | 5   | WHT    | 2.5  |
| -S2:3  | -S1:32 | Heat Resistance Cable | 6   | WHT    | 2.5  |
| -S2:P1 | -S3:32 | Heat Resistance Cable | 7   | WHT    | 2.5  |
| -S2:P2 | -S3:22 | Heat Resistance Cable | 8   | WHT    | 2.5  |
| -S3:12 | -S2:P3 | Heat Resistance Cable | 9   | WHT    | 2.5  |
| -R2:1  | -S3:21 | Heat Resistance Cable | 10  | WHT    | 2.5  |
| -R4:1  | -S3:11 | Heat Resistance Cable | 11  | WHT    | 2.5  |
| -S2:P4 | -H1:2  |                       | 12  | BK     | 0.5  |
| -S2:4  | -H2:2  |                       | 13  | BK     | 0.5  |
| -H2:1  | -S3:31 |                       | 14  | BK     | 0.5  |
| -S3:31 | -R1:1  | Heat Resistance Cable | 15  | WHT    | 2.5  |
| -R2:1  | -R3:1  | Heat Resistance Cable | 16  | WHT    | 2.5  |
| -R2:2  | -R1:2  | Heat Resistance Cable | 17  | BU     | 2.5  |
| -R5:2  | -R4:2  | Heat Resistance Cable | 18  | BU     | 2.5  |
| -R2:2  | -R3:2  | Heat Resistance Cable | 19  | BU     | 2.5  |
| -R3:2  | N      | Heat Resistance Cable | 20  | BU     | 2.5  |
| -S4:11 | L1     | Heat Resistance Cable | 21  | WHT    | 2.5  |
| -S4:21 | L2     | Heat Resistance Cable | 22  | WHT    | 2.5  |
| -S4:31 | L3     | Heat Resistance Cable | 23  | WHT    | 2.5  |
| -S5:1  | -S4:12 | Heat Resistance Cable | 24  | WHT    | 2.5  |
| -S5:2  | -S4:22 | Heat Resistance Cable | 25  | WHT    | 2.5  |
| -S5:3  | -S4:32 | Heat Resistance Cable | 26  | WHT    | 2.5  |
| -S5:P1 | -S6:32 | Heat Resistance Cable | 27  | WHT    | 2.5  |
| -S5:P2 | -S6:22 | Heat Resistance Cable | 28  | WHT    | 2.5  |
| -S5:P3 | -S6:12 | Heat Resistance Cable | 29  | WHT    | 2.5  |
| -S6:31 | -R6:1  | Heat Resistance Cable | 30  | WHT    | 2.5  |

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|  | <b>PT.NAYATI INDONESIA</b><br>Jl.Raya Terboyo No.19<br>Kawasan Industri Terboyo Megah<br>Semarang 50112 | TP 12 E (J) |        |     | Drawing Nr. | Created Date | Project: |          | Page      |
|  |   | 3N-400V     | 11.7kW | 18A | 444         | 5/2/2016     | Electric |          | 1         |
|  |   | 50/60Hz     |        |     | Rev Nr.     | Rev Date     | Drawn    | All Page | Next Page |
|  |   |             |        | 001 | 12/26/2017  | Mario        | 2        | 2        |           |



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| Type               | : | TP 12 E Portable J |
| Voltage            | : | 3N-400V            |
| Frequency          | : | 50/60Hz            |
| Power Consumption: |   | 11.7kW             |
| Gas Consumption    | : |                    |
| Current            | : | 18A                |

electrical documentation

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PT.NAYATI INDONESIA

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 12 E Portable J

3N-400V

11.7kW

18A

50/60Hz

Drawing Nr.

205

Created Date

12/26/2017

Rev Nr.

Rev Date

Project:

Electric

Drawn

Mario

All Page

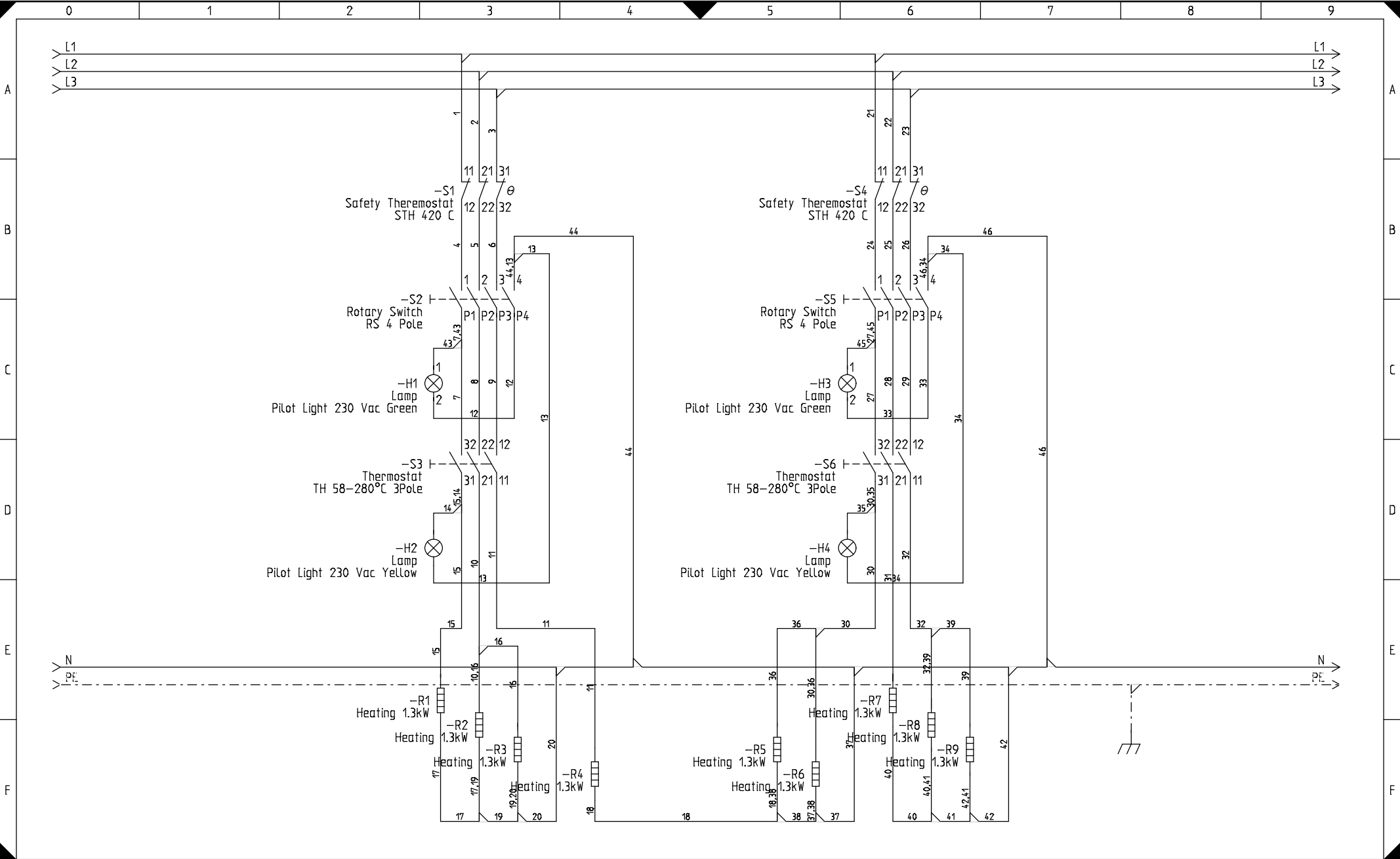
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Page

1

Next Page

2



**PT.NAYATI INDONESIA**  
 Jl.Raya Terboyo No.19  
 Kawasan Industri Terboyo Megah  
 Semarang 50112

| TP 12 E Portable J |        |     |
|--------------------|--------|-----|
| 3N-400V            | 11.7kW | 18A |
| 50/60Hz            |        |     |

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| Drawing Nr. | Created Date |
| 205         | 12/26/2017   |
| Rev Nr.     | Rev Date     |
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| Project: | Page     |
| Electric | 2        |
| Drawn    | All Page |
| Mario    | 2        |

|           |
|-----------|
| Next Page |
|           |



# List of Products

| Product | Type                       | Description        | Document type    | Sheet | Path |
|---------|----------------------------|--------------------|------------------|-------|------|
| -H1     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 3    |
| -H2     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 3    |
| -R1     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -R2     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -R3     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 3    |
| -S1     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 3    |
| -S2     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 3    |
| -S3     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 3    |
| -R4     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R5     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -R6     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -H3     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 6    |
| -H4     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 6    |
| -R7     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -R8     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -R9     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 6    |
| -S4     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 6    |
| -S5     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 6    |
| -S6     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 6    |
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## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -S1:11 | L1     | Heat Resistance Cable | 1   | WHT    | 2.5  |
| -S1:21 | L2     | Heat Resistance Cable | 2   | WHT    | 2.5  |
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| -S2:1  | -S1:12 | Heat Resistance Cable | 4   | WHT    | 2.5  |
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| -S2:3  | -S1:32 | Heat Resistance Cable | 6   | WHT    | 2.5  |
| -S2:P1 | -S3:32 | Heat Resistance Cable | 7   | WHT    | 2.5  |
| -S2:P2 | -S3:22 | Heat Resistance Cable | 8   | WHT    | 2.5  |
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| -R2:1  | -S3:21 | Heat Resistance Cable | 10  | WHT    | 2.5  |
| -R4:1  | -S3:11 | Heat Resistance Cable | 11  | WHT    | 2.5  |
| -S2:P4 | -H1:2  |                       | 12  | BK     | 0.5  |
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| -R5:2  | -R4:2  | Heat Resistance Cable | 18  | BU     | 2.5  |
| -R2:2  | -R3:2  | Heat Resistance Cable | 19  | BU     | 2.5  |
| -R3:2  | N      | Heat Resistance Cable | 20  | BU     | 2.5  |
| -S4:11 | L1     | Heat Resistance Cable | 21  | WHT    | 2.5  |
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| -S5:P1 | -S6:32 | Heat Resistance Cable | 27  | WHT    | 2.5  |
| -S5:P2 | -S6:22 | Heat Resistance Cable | 28  | WHT    | 2.5  |
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**PT.NAYATI INDONESIA**

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 12 E Portable J

3N-400V

11.7kW

18A

50/60Hz

Drawing Nr.

205

Created Date

12/26/2017

Rev Nr.

Rev Date

Project:

Electric

Drawn  
Mario

All Page

2

Page

1

Next Page

2

## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -R7:1  | -S6:21 | Heat Resistance Cable | 31  | WHT    | 2.5  |
| -R8:1  | -S6:11 | Heat Resistance Cable | 32  | WHT    | 2.5  |
| -H3:2  | -S5:P4 |                       | 33  | BK     | 0.5  |
| -S5:4  | -H4:2  |                       | 34  | BK     | 0.5  |
| -H4:1  | -S6:31 |                       | 35  | BK     | 0.5  |
| -R6:1  | -R5:1  | Heat Resistance Cable | 36  | WHT    | 2.5  |
| -R6:2  | N      | Heat Resistance Cable | 37  | BU     | 2.5  |
| -R6:2  | -R5:2  | Heat Resistance Cable | 38  | BU     | 2.5  |
| -R8:1  | -R9:1  | Heat Resistance Cable | 39  | WHT    | 2.5  |
| -R7:2  | -R8:2  | Heat Resistance Cable | 40  | BU     | 2.5  |
| -R9:2  | -R8:2  | Heat Resistance Cable | 41  | BU     | 2.5  |
| -R9:2  | N      | Heat Resistance Cable | 42  | BU     | 2.5  |
| -S2:P1 | -H1:1  |                       | 43  | BK     | 0.5  |
| -S2:4  | N      | Heat Resistance Cable | 44  | BU     | 2.5  |
| -S5:P1 | -H3:1  |                       | 45  | BK     | 0.5  |
| -S5:4  | N      | Heat Resistance Cable | 46  | BU     | 2.5  |
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|        |        |                       |     |        |      |
|        |        |                       |     |        |      |

|                    |   |             |
|--------------------|---|-------------|
| Type               | : | TP 15 E (J) |
| Voltage            | : | 3N-400V     |
| Frequency          | : | 50/60Hz     |
| Power Consumption: |   | 14.3kW      |
| Gas Consumption    | : |             |
| Current            | : | 24A         |

electrical documentation

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PT.NAYATI INDONESIA

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 15 E (J)

3N-400V

14.3kW

24A

50/60Hz

Drawing Nr.

490

Created Date

10/10/2016

Rev Nr.

001

Rev Date

12/26/2017

Project:

Electric

Drawn

Mario

All Page

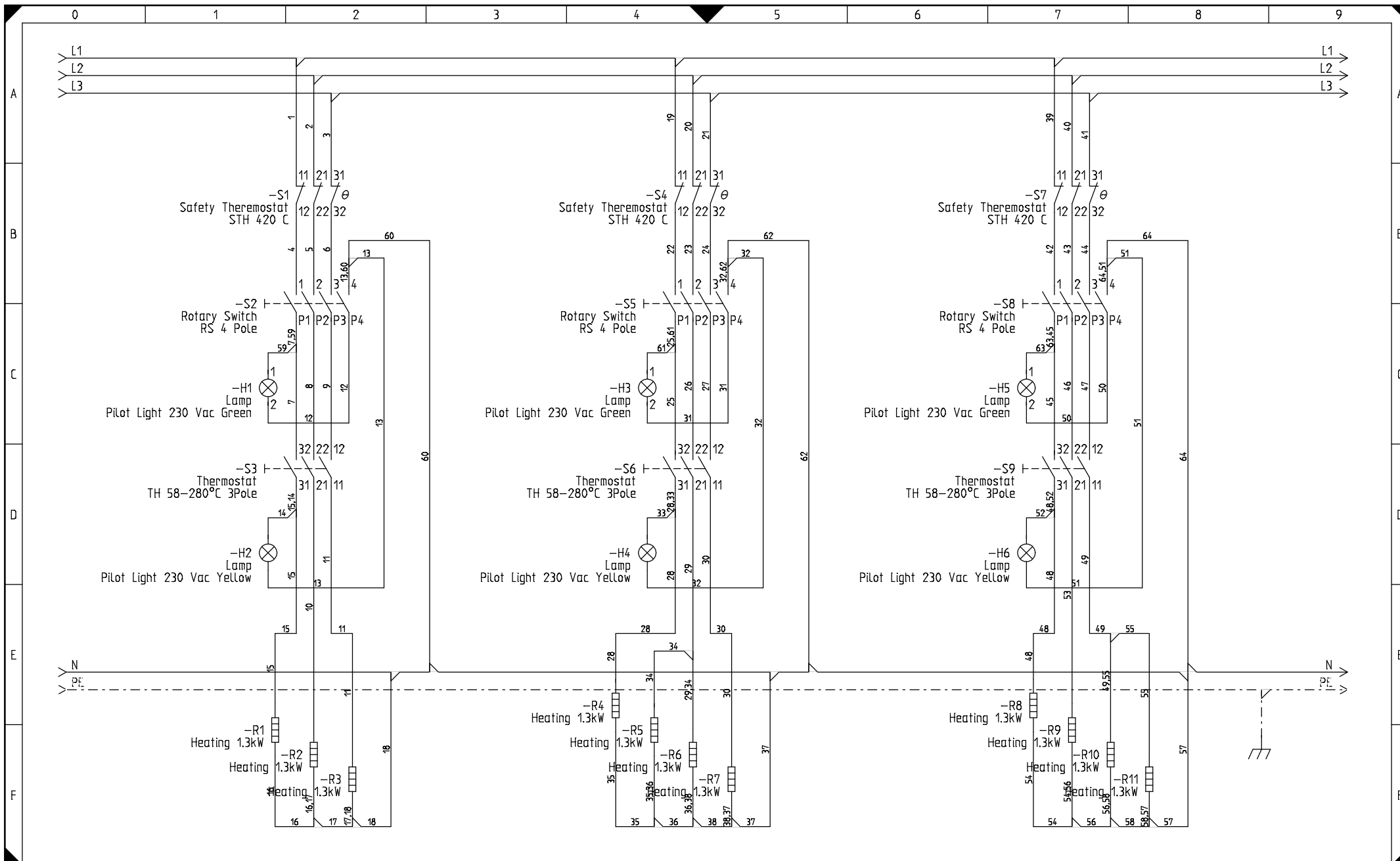
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Page

1

Next Page

2




|  |   |                    |        |     |             |              |          |          |
|--|---|--------------------|--------|-----|-------------|--------------|----------|----------|
|  | <b>PT.NAYATI INDONESIA</b><br>Jl.Raya Terboyo No.19<br>Kawasan Industri Terboyo Megah<br>Semarang 50112 | <b>TP 15 E (J)</b> |        |     | Drawing Nr. | Created Date | Project: | Page     |
|  |   | 3N-400V            | 14.3kW | 24A | 490         | 10/10/2016   | Electric | 2        |
|  |   | 50/60Hz            |        |     | Rev Nr.     | Rev Date     | Drawn    | All Page |
|  |   |                    |        | 001 | 12/26/2017  | Mario        | 2        |          |

## List of Products

| Product | Type                       | Description        | Document type    | Sheet | Path |
|---------|----------------------------|--------------------|------------------|-------|------|
| -H1     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 1    |
| -H2     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 1    |
| -R1     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 1    |
| -R2     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 2    |
| -R3     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 2    |
| -S1     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 2    |
| -S2     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 2    |
| -S3     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 2    |
| -H3     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 4    |
| -H4     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 4    |
| -R4     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R5     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R6     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -S4     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 4    |
| -S5     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 4    |
| -S6     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 4    |
| -R7     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -H5     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 7    |
| -H6     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 7    |
| -R10    | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -R8     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -R9     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -S7     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 7    |
| -S8     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 7    |
| -S9     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 7    |
| -R11    | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 8    |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |

## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -S1:11 | L1     | Heat Resistance Cable | 1   | WHT    | 2.5  |
| -S1:21 | L2     | Heat Resistance Cable | 2   | WHT    | 2.5  |
| -S1:31 | L3     | Heat Resistance Cable | 3   | WHT    | 2.5  |
| -S2:1  | -S1:12 | Heat Resistance Cable | 4   | WHT    | 2.5  |
| -S2:2  | -S1:22 | Heat Resistance Cable | 5   | WHT    | 2.5  |
| -S2:3  | -S1:32 | Heat Resistance Cable | 6   | WHT    | 2.5  |
| -S2:P1 | -S3:32 | Heat Resistance Cable | 7   | WHT    | 2.5  |
| -S2:P2 | -S3:22 | Heat Resistance Cable | 8   | WHT    | 2.5  |
| -S2:P3 | -S3:12 | Heat Resistance Cable | 9   | WHT    | 2.5  |
| -S3:21 | -R2:1  | Heat Resistance Cable | 10  | WHT    | 2.5  |
| -R3:1  | -S3:11 | Heat Resistance Cable | 11  | WHT    | 2.5  |
| -S2:P4 | -H1:2  |                       | 12  | BK     | 0.5  |
| -S2:4  | -H2:2  |                       | 13  | BK     | 0.5  |
| -H2:1  | -S3:31 |                       | 14  | BK     | 0.5  |
| -S3:31 | -R1:1  | Heat Resistance Cable | 15  | WHT    | 2.5  |
| -R2:2  | -R1:2  | Heat Resistance Cable | 16  | BU     | 2.5  |
| -R2:2  | -R3:2  | Heat Resistance Cable | 17  | BU     | 2.5  |
| -R3:2  | N      | Heat Resistance Cable | 18  | BU     | 2.5  |
| -S4:11 | L1     | Heat Resistance Cable | 19  | WHT    | 2.5  |
| -S4:21 | L2     | Heat Resistance Cable | 20  | WHT    | 2.5  |
| -S4:31 | L3     | Heat Resistance Cable | 21  | WHT    | 2.5  |
| -S5:1  | -S4:12 | Heat Resistance Cable | 22  | WHT    | 2.5  |
| -S5:2  | -S4:22 | Heat Resistance Cable | 23  | WHT    | 2.5  |
| -S5:3  | -S4:32 | Heat Resistance Cable | 24  | WHT    | 2.5  |
| -S5:P1 | -S6:32 | Heat Resistance Cable | 25  | WHT    | 2.5  |
| -S5:P2 | -S6:22 | Heat Resistance Cable | 26  | WHT    | 2.5  |
| -S5:P3 | -S6:12 | Heat Resistance Cable | 27  | WHT    | 2.5  |
| -S6:31 | -R4:1  | Heat Resistance Cable | 28  | WHT    | 2.5  |
| -R6:1  | -S6:21 | Heat Resistance Cable | 29  | BK     | 2.5  |
| -R7:1  | -S6:11 | Heat Resistance Cable | 30  | WHT    | 2.5  |

|  |   |             |        |     |             |              |          |          |           |
|--|---|-------------|--------|-----|-------------|--------------|----------|----------|-----------|
|  | <b>PT.NAYATI INDONESIA</b><br>Jl.Raya Terboyo No.19<br>Kawasan Industri Terboyo Megah<br>Semarang 50112 | TP 15 E (J) |        |     | Drawing Nr. | Created Date | Project: |          | Page      |
|  |   | 3N-400V     | 14.3kW | 24A | 490         | 10/10/2016   | Electric |          | 1         |
|  |   | 50/60Hz     |        |     | Rev Nr.     | Rev Date     | Drawn    | All Page | Next Page |
|  |   |             |        | 001 | 12/26/2017  | Mario        | 3        | 2        |           |

## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -H3:2  | -S5:P4 |                       | 31  | BK     | 0.5  |
| -S5:4  | -H4:2  |                       | 32  | BK     | 0.5  |
| -H4:1  | -S6:31 |                       | 33  | BK     | 0.5  |
| -R6:1  | -R5:1  | Heat Resistance Cable | 34  | WHT    | 2.5  |
| -R5:2  | -R4:2  | Heat Resistance Cable | 35  | BU     | 2.5  |
| -R6:2  | -R5:2  | Heat Resistance Cable | 36  | BU     | 2.5  |
| -R7:2  | N      | Heat Resistance Cable | 37  | BU     | 2.5  |
| -R6:2  | -R7:2  | Heat Resistance Cable | 38  | BU     | 2.5  |
| -S7:11 | L1     | Heat Resistance Cable | 39  | WHT    | 2.5  |
| -S7:21 | L2     | Heat Resistance Cable | 40  | WHT    | 2.5  |
| -S7:31 | L3     | Heat Resistance Cable | 41  | WHT    | 2.5  |
| -S8:1  | -S7:12 | Heat Resistance Cable | 42  | WHT    | 2.5  |
| -S8:2  | -S7:22 | Heat Resistance Cable | 43  | WHT    | 2.5  |
| -S8:3  | -S7:32 | Heat Resistance Cable | 44  | WHT    | 2.5  |
| -S8:P1 | -S9:32 | Heat Resistance Cable | 45  | WHT    | 2.5  |
| -S8:P2 | -S9:22 | Heat Resistance Cable | 46  | WHT    | 2.5  |
| -S8:P3 | -S9:12 | Heat Resistance Cable | 47  | WHT    | 2.5  |
| -S9:31 | -R8:1  | Heat Resistance Cable | 48  | WHT    | 2.5  |
| -R10:1 | -S9:11 | Heat Resistance Cable | 49  | WHT    | 2.5  |
| -H5:2  | -S8:P4 |                       | 50  | BK     | 0.5  |
| -S8:4  | -H6:2  |                       | 51  | BK     | 0.5  |
| -H6:1  | -S9:31 |                       | 52  | BK     | 0.5  |
| -S9:21 | -R9:1  | Heat Resistance Cable | 53  | WHT    | 2.5  |
| -R9:2  | -R8:2  | Heat Resistance Cable | 54  | BU     | 2.5  |
| -R10:1 | -R11:1 | Heat Resistance Cable | 55  | WHT    | 2.5  |
| -R9:2  | -R10:2 | Heat Resistance Cable | 56  | BU     | 2.5  |
| -R11:2 | N      | Heat Resistance Cable | 57  | BU     | 2.5  |
| -R10:2 | -R11:2 | Heat Resistance Cable | 58  | BU     | 2.5  |
| -S2:P1 | -H1:1  |                       | 59  | BK     | 0.5  |
| -S2:4  | N      | Heat Resistance Cable | 60  | BU     | 2.5  |





|                    |   |                    |
|--------------------|---|--------------------|
| Type               | : | TP 15 E Portable J |
| Voltage            | : | 3N-400V            |
| Frequency          | : | 50/60Hz            |
| Power Consumption: |   | 14.3kW             |
| Gas Consumption    | : |                    |
| Current            | : | 24A                |

electrical documentation

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PT.NAYATI INDONESIA

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 15 E Portable J

3N-400V

14.3kW

24A

50/60Hz

Drawing Nr.

490

Created Date

10/10/2016

Rev Nr.

001

Rev Date

12/26/2017

Project:

Electric

Drawn

Mario

All Page

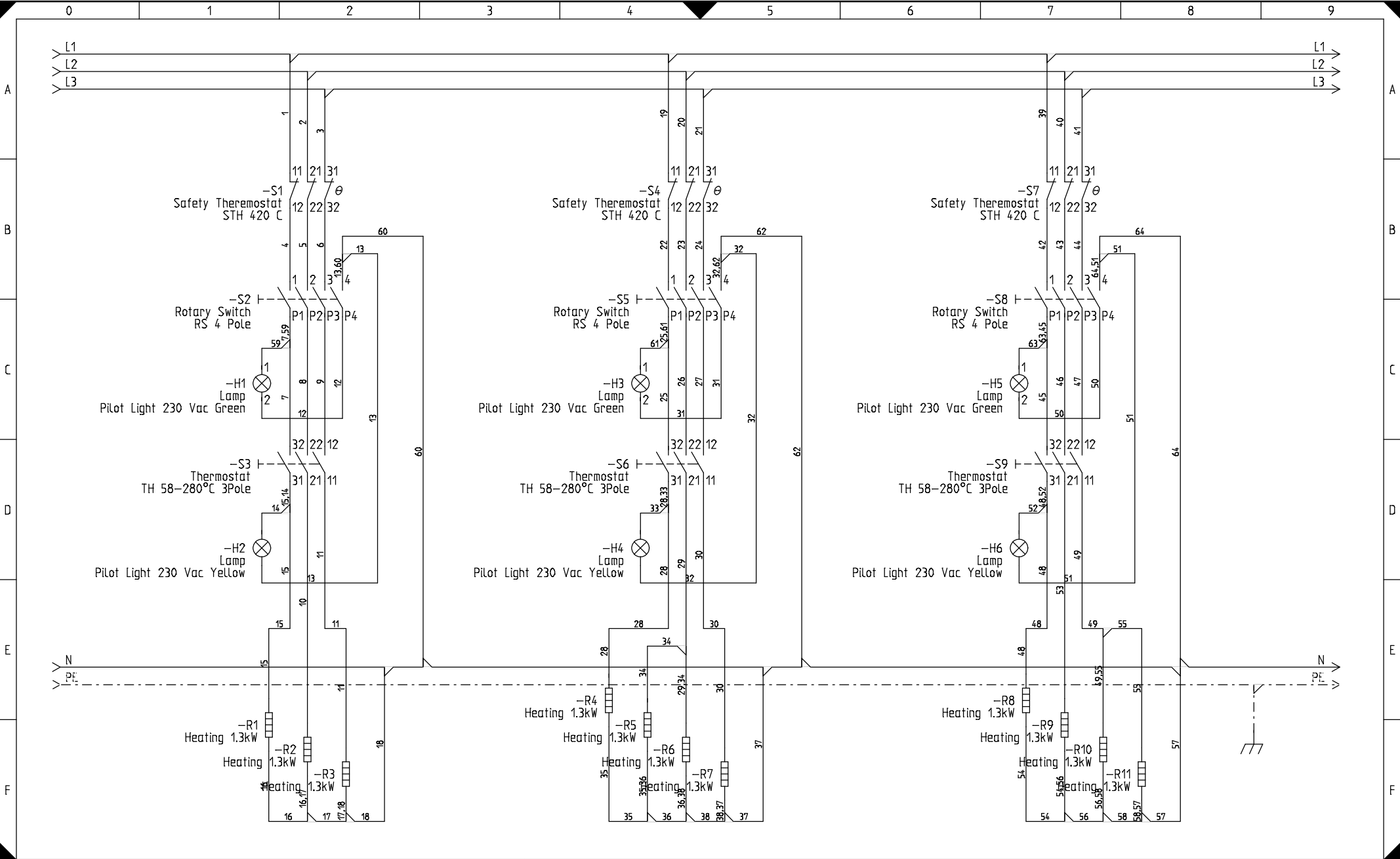
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Page

1

Next Page

2



**PT.NAYATI INDONESIA**  
 Jl.Raya Terboyo No.19  
 Kawasan Industri Terboyo Megah  
 Semarang 50112

| TP 15 E Portable J |        |     |
|--------------------|--------|-----|
| 3N-400V            | 14.3kW | 24A |
| 50/60Hz            |        |     |

|             |     |              |            |
|-------------|-----|--------------|------------|
| Drawing Nr. | 490 | Created Date | 10/10/2016 |
| Rev Nr.     | 001 | Rev Date     | 12/26/2017 |

|          |          |
|----------|----------|
| Project: | Electric |
| Drawn    | Mario    |

|           |   |
|-----------|---|
| Page      | 2 |
| Next Page | 2 |

## List of Products

| Product | Type                       | Description        | Document type    | Sheet | Path |
|---------|----------------------------|--------------------|------------------|-------|------|
| -H1     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 1    |
| -H2     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 1    |
| -R1     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 1    |
| -R2     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 2    |
| -R3     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 2    |
| -S1     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 2    |
| -S2     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 2    |
| -S3     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 2    |
| -H3     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 4    |
| -H4     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 4    |
| -R4     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R5     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -R6     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 4    |
| -S4     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 4    |
| -S5     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 4    |
| -S6     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 4    |
| -R7     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 5    |
| -H5     | Pilot Light 230 Vac Green  | Lamp               | Circuit diagrams | 2     | 7    |
| -H6     | Pilot Light 230 Vac Yellow | Lamp               | Circuit diagrams | 2     | 7    |
| -R10    | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -R8     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -R9     | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 7    |
| -S7     | STH 420 C                  | Safety Theremostat | Circuit diagrams | 2     | 7    |
| -S8     | RS 4 Pole                  | Rotary Switch      | Circuit diagrams | 2     | 7    |
| -S9     | TH 58-280°C 3Pole          | Thermostat         | Circuit diagrams | 2     | 7    |
| -R11    | Die Cast Heater 1,3kW/230V | Heating 1.3kW      | Circuit diagrams | 2     | 8    |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |
|         |                            |                    |                  |       |      |

## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -S1:11 | L1     | Heat Resistance Cable | 1   | WHT    | 2.5  |
| -S1:21 | L2     | Heat Resistance Cable | 2   | WHT    | 2.5  |
| -S1:31 | L3     | Heat Resistance Cable | 3   | WHT    | 2.5  |
| -S2:1  | -S1:12 | Heat Resistance Cable | 4   | WHT    | 2.5  |
| -S2:2  | -S1:22 | Heat Resistance Cable | 5   | WHT    | 2.5  |
| -S2:3  | -S1:32 | Heat Resistance Cable | 6   | WHT    | 2.5  |
| -S2:P1 | -S3:32 | Heat Resistance Cable | 7   | WHT    | 2.5  |
| -S2:P2 | -S3:22 | Heat Resistance Cable | 8   | WHT    | 2.5  |
| -S2:P3 | -S3:12 | Heat Resistance Cable | 9   | WHT    | 2.5  |
| -S3:21 | -R2:1  | Heat Resistance Cable | 10  | WHT    | 2.5  |
| -R3:1  | -S3:11 | Heat Resistance Cable | 11  | WHT    | 2.5  |
| -S2:P4 | -H1:2  |                       | 12  | BK     | 0.5  |
| -S2:P4 | -H2:2  |                       | 13  | BK     | 0.5  |
| -H2:1  | -S3:31 |                       | 14  | BK     | 0.5  |
| -S3:31 | -R1:1  | Heat Resistance Cable | 15  | WHT    | 2.5  |
| -R2:2  | -R1:2  | Heat Resistance Cable | 16  | BU     | 2.5  |
| -R2:2  | -R3:2  | Heat Resistance Cable | 17  | BU     | 2.5  |
| -R3:2  | N      | Heat Resistance Cable | 18  | BU     | 2.5  |
| -S4:11 | L1     | Heat Resistance Cable | 19  | WHT    | 2.5  |
| -S4:21 | L2     | Heat Resistance Cable | 20  | WHT    | 2.5  |
| -S4:31 | L3     | Heat Resistance Cable | 21  | WHT    | 2.5  |
| -S5:1  | -S4:12 | Heat Resistance Cable | 22  | WHT    | 2.5  |
| -S5:2  | -S4:22 | Heat Resistance Cable | 23  | WHT    | 2.5  |
| -S5:3  | -S4:32 | Heat Resistance Cable | 24  | WHT    | 2.5  |
| -S5:P1 | -S6:32 | Heat Resistance Cable | 25  | WHT    | 2.5  |
| -S5:P2 | -S6:22 | Heat Resistance Cable | 26  | WHT    | 2.5  |
| -S5:P3 | -S6:12 | Heat Resistance Cable | 27  | WHT    | 2.5  |
| -S6:31 | -R4:1  | Heat Resistance Cable | 28  | WHT    | 2.5  |
| -R6:1  | -S6:21 | Heat Resistance Cable | 29  | BK     | 2.5  |
| -R7:1  | -S6:11 | Heat Resistance Cable | 30  | WHT    | 2.5  |



**PT.NAYATI INDONESIA**

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 15 E Portable J

|         |        |     |
|---------|--------|-----|
| 3N-400V | 14.3kW | 24A |
| 50/60Hz |        |     |

Drawing Nr.

490

Created Date

10/10/2016

Project:

Electric

Page

1

Rev Nr.

001

Rev Date

12/26/2017

Drawn

Mario

All Page

3

Next Page

2

## List of Connections

| From   | To     | Type                  | No. | Colour | Size |
|--------|--------|-----------------------|-----|--------|------|
| -H3:2  | -S5:P4 |                       | 31  | BK     | 0.5  |
| -S5:P4 | -H4:2  |                       | 32  | BK     | 0.5  |
| -H4:1  | -S6:31 |                       | 33  | BK     | 0.5  |
| -R6:1  | -R5:1  | Heat Resistance Cable | 34  | WHT    | 2.5  |
| -R5:2  | -R4:2  | Heat Resistance Cable | 35  | BU     | 2.5  |
| -R6:2  | -R5:2  | Heat Resistance Cable | 36  | BU     | 2.5  |
| -R7:2  | N      | Heat Resistance Cable | 37  | BU     | 2.5  |
| -R6:2  | -R7:2  | Heat Resistance Cable | 38  | BU     | 2.5  |
| -S7:11 | L1     | Heat Resistance Cable | 39  | WHT    | 2.5  |
| -S7:21 | L2     | Heat Resistance Cable | 40  | WHT    | 2.5  |
| -S7:31 | L3     | Heat Resistance Cable | 41  | WHT    | 2.5  |
| -S8:1  | -S7:12 | Heat Resistance Cable | 42  | WHT    | 2.5  |
| -S8:2  | -S7:22 | Heat Resistance Cable | 43  | WHT    | 2.5  |
| -S8:3  | -S7:32 | Heat Resistance Cable | 44  | WHT    | 2.5  |
| -S8:P1 | -S9:32 | Heat Resistance Cable | 45  | WHT    | 2.5  |
| -S8:P2 | -S9:22 | Heat Resistance Cable | 46  | WHT    | 2.5  |
| -S8:P3 | -S9:12 | Heat Resistance Cable | 47  | WHT    | 2.5  |
| -S9:31 | -R8:1  | Heat Resistance Cable | 48  | WHT    | 2.5  |
| -R10:1 | -S9:11 | Heat Resistance Cable | 49  | WHT    | 2.5  |
| -H5:2  | -S8:P4 |                       | 50  | BK     | 0.5  |
| -S8:P4 | -H6:2  |                       | 51  | BK     | 0.5  |
| -H6:1  | -S9:31 |                       | 52  | BK     | 0.5  |
| -S9:21 | -R9:1  | Heat Resistance Cable | 53  | WHT    | 2.5  |
| -R9:2  | -R8:2  | Heat Resistance Cable | 54  | BU     | 2.5  |
| -R10:1 | -R11:1 | Heat Resistance Cable | 55  | WHT    | 2.5  |
| -R9:2  | -R10:2 | Heat Resistance Cable | 56  | BU     | 2.5  |
| -R11:2 | N      | Heat Resistance Cable | 57  | BU     | 2.5  |
| -R10:2 | -R11:2 | Heat Resistance Cable | 58  | BU     | 2.5  |
| -S2:P1 | -H1:1  |                       | 59  | BK     | 0.5  |
| -S2:4  | N      | Heat Resistance Cable | 60  | BU     | 2.5  |



**PT.NAYATI INDONESIA**

Jl.Raya Terboyo No.19  
Kawasan Industri Terboyo Megah  
Semarang 50112

TP 15 E Portable J

|         |        |     |
|---------|--------|-----|
| 3N-400V | 14.3kW | 24A |
| 50/60Hz |        |     |

Drawing Nr.

490

Created Date

10/10/2016

Project:

Electric

Page

2

Rev Nr.

001

Rev Date

12/26/2017

Drawn

Mario

All Page

3

Next Page

3

# List of Connections

| From   | To    | Type                  | No. | Colour | Size |
|--------|-------|-----------------------|-----|--------|------|
| -S5:P1 | -H3:1 |                       | 61  | BK     | 0.5  |
| -S5:4  | N     | Heat Resistance Cable | 62  | BU     | 2.5  |
| -S8:P1 | -H5:1 |                       | 63  | BK     | 0.5  |
| -S8:4  | N     | Heat Resistance Cable | 64  | BU     | 2.5  |
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