HK **Healkeren™**
V-Care with Light.

CE

Automated Resuscitation Centre with HMI Based Touch Screen
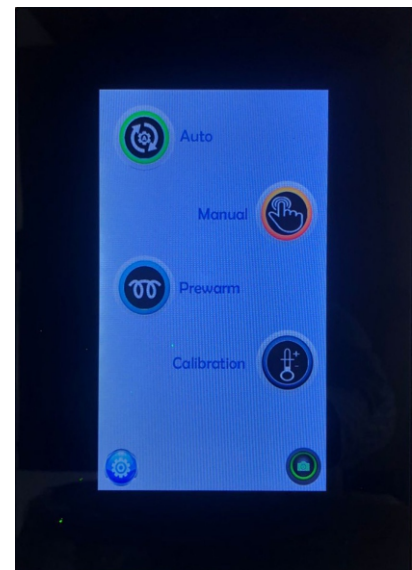
Model : Heal - HMI RC

Powered by: Smart ThermGenX Software Ver 1.0
(Made in India)

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The Resuscitation Centre is remarkably convenient and user friendly, given its capabilities. The space around the infant is organized efficiently for the convenience of caregivers, the mother and visitors. The designed to provide warmth to preterm infants and simultaneously meet the critical situations that may arise in providing care for such babies.
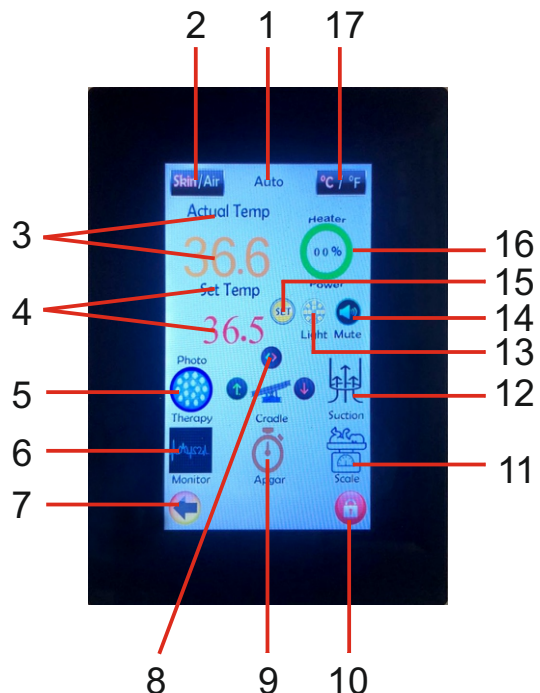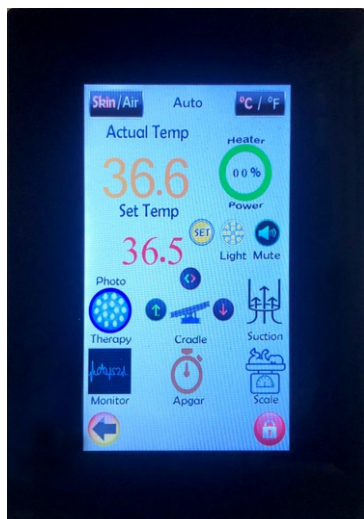
Advance Feature

- Smart ThermGenx Software, Version 1.0 (Made in India)
- HMI Based Touch Screen System
- Thermostat based Skin and Air sensors
- Provision for Quartz or Ceramic Heating element
- Gesture controlled Observation Light
- Automated Tilting motion mechanism
- Top and bottom LED phototherapy
- Slow Suction assembly
- Inbuilt baby weighting scale
- Inbuilt apgar timer
- Patient monitor control
- Acrylic easy open and lock clutches
- X-Ray tray provision
- Rotatable monitor tray
- Large three storage cabins
- Provision for IV stand
- Heater box tilt able for X-Ray

Main Screen

Program Screen
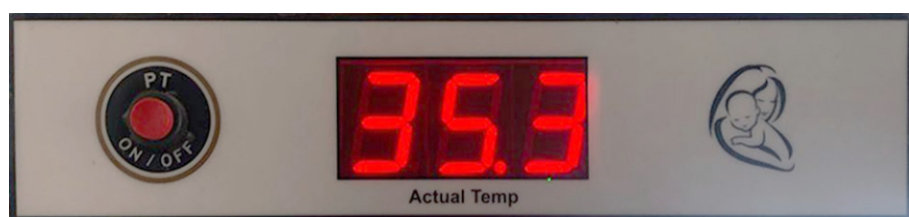
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Standby Mode

1. Auto, Manual and Pre warm Mode Selection
2. Skin and Air probe selection
3. Actual Temperature is constantly displayed
4. Set temperature can be adjusted
5. Top and Bottom Phototherapy settings
6. Patient Monitor ON/ Off selection
7. Back button
8. Baby Cradle tilting settings
9. Apgar timer settings
10. Screen Unlock bottom
11. Baby weighting scale operations
12. Slow Suction operation
13. Set button to change the required temperature (set temperature)
14. Observation light on or off and intensity control
15. Mute and un mute button
16. Heater Power indicator 00 to 99%
17. Degree centigrade or farhenite selection
18. Selected mode is displayed (Auto or manual)
19. Selected sensor is displayed (Skin or Air)
20. Actual temperature value is displayed
21. Set temperature value is displayed
22. Baby body thermoregulation temperature graph display
23. Resuscitation Centre working timer
24. Screen unlock button
25. New / Old, current thermoregulation graph of one hour and previous graph of one hour can be seen
26. Phototherapy On time or Off status display
27. Heater power in percentage displayed
28. Clock time is displayed

External One inch three digit seven segment display

Actual Temp

TECHNICAL SPECIFICATIONS

SOFTWARE

1. ➡ Smart ThermGenx Software, Version 3.0 (Make in India)

CONTROL

2. ➡ 7 inch HMI (Human Machine Interface) based TFT Touch Screen control System

3. ➡ Addition external one inch three digit Seven segment Display

CONTROL SOFTWARE FEATURES

4. ➡ Software performs self test

5. ➡ Auto, Manual, Pre warm, calibration and service modes available

6. ➡ Thermister based Skin and Air sensor can be selected

7. ➡ Software intelligently adjust heater ON time and OFF time depending upon temp high / low

8. ➡ Thermoregulation graph stores two hours of baby body temperature variations

9. ➡ Actual temp and Set Temp can be viewed in Celsius (^{0}C) and Fahrenheit (^{0}F)

10. ➡ The set temp can be varied from 28 ^{0}C to 37.5 ^{0}C

11. ➡ In manual mode Heater power is set from 5% to 99% with 5% increment

12. ➡ Heater ON time in Manual mode can be set to 30 minutes, one hour or continues...

13. ➡ In manual mode, once the temp reaches 37 ^{0}C, the heater will switch OFF and when the temp drops below 36 ^{0}C, the heater will switch ON (temp is maintained between 36 ^{0}C to 37 ^{0}C)   NOTE: this feature is available when the selected probe (skin or air) is connected

14. ➡ The heater power can be seen in numerical percentage and circular graph bar simultaneously

15. ➡ Skin and Air probes don't need calibration

16. ➡ High resolution actual and set temperature can be seen on Touch panel

17. ➡ Additional one inch SSD on the Heater box for Actual temperature display, visible from 20 Mts

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TECHNICAL SPECIFICATIONS

18. ➡ Set temperature can be maintained +/- 0.2 degree in a constant room temperature

19. ➡ Accurate time is displayed

20. ➡ Warmer on time or complete treatment session time is displayed

CONTROL FEATURES (ERROR MESSAGES)

21. ➡ Reference to set temperature +1 ^{0}C high or -1 ^{0}C low temperature status message will be displayed with buzzer (Temperature High or Temperature Low)

22. ➡ A) Skin or Air probe error message displayed with buzzer

    B) Red or Green led light indicator for probe error at probe connector jack

23. ➡ Power failure alarm

24. ➡ Heater power will be disconnected if the actual temperature reaches above 38 ^{0}C and error message of "over Temperature" will be displayed along with buzzer.

25. ➡ If the selected probe temperature is below 2 ^{0}C for more than 5 minutes, the software will display error message of "check probe/ Heater connection" (System Failure), then the system needs restart to check probe placement, heater status or any other malfunctions.

PHYSICAL PARAMETERS (BABY TRAY)

• Length: 700mm, Width: 500mm, mattress thickness: 25mm

• With acrylic side wall on all four sides

• Tilting mechanism inbuilt

• Provision for X-Ray cassette

TECHNICAL SPECIFICATIONS

PHYSICAL PARAMETERS (FABRICATION)

- Mild Steel body
- Powder coated
- 4 castors (Two with break and Two without break)
- Provision for IV Stand
- Baby Trolly attached to the warmer with bottom tray
- Provision for Monitor placement
- Heater box rotation for X-Ray
- Parabolic reflector for proper distribution of Heat on to the baby bed

OBSERVATION LIGHT

- 6 watt Led observation light (tiltable)

ELECTRICAL SPECIFICATION

- Heater Power: standard 650 watt (optional 650 to 1000 Watts available)
- Operating Voltage: 220V AC +/- 10% 50hz, 6A