

OPERATING MANUAL

Operations & settable parameters :

- 1. FILLING** : To fill the main vessel.
 Outputs : Fill

NO.	Parameter	Description	Range		
1	Fill LV 1	Filling level	LC1	LC2	LC3

- 2. HEATING** : To apply heating as per the set temperature & gradient
 Outputs : Heat / Main / Reel

NO.	Parameter	Description	Range
1	Set Temp. C	Set Temperature	0-150 degree c
2	Rate C/Min	Rate of rise of Temperature	0-10.0 C/Min
3	Hold Tim Min	Hold Time	0-100 Min

- 3. COOLING** : To apply cooling as per the set temperature & gradient.
 Outputs : Cool / Main / Reel / Delayed Cool

NO.	Parameter	Description	Range
1	Set Temp. C	Set Temperature	0-150 degree c
2	Rate C/Min	Rate of Fall Temperature	0-10.0 C/Min
3	Hold Tim Min	Hold Time	0-100 Min
4	DlyCool Sec	Delay for the Delayed cool output	0-100 Sec

- 4. DRAIN** : To drain the vessel.
 Outputs : Drain

NO.	Parameter	Description	Range
1	Delay Sec	Delay after the level input received for which the drain output remains on	0-100 Sec

- 5. ALARM** : To warn for the alarm conditions.
 Outputs : Alarm

NO.	Parameter	Description	Range
1	Time Sec	Sec The time for which the alarm output remains on.	0-60 Sec
2	Option	Various options for alarm	0-4
			0-Load fabric
			1 - Unload Fabric
			2-Add chemical
			3 - Add Dyes
			4 - Operator Call

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- 6. WASHING** : To wash the vessel.
 Outputs : Drain / Fill / Main / Reel / Heat (Optional)

NO.	Parameter	Description	Range
1	Time Min	Total time of the operation	0-100 Min
2	Fill	Lvl To decide the filling level during the wash	LC1/LC2/LC3
3	Heat	Whether to turn on heating	On/Off

- 7. TRANSFER 1** :
 Outputs : Transfer 1 / Main / Reel

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 8. REVERSAL 1** :
 Outputs : Reversal 1 / Main / Reel

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 9. TRANSFER 2** :
 Outputs : Transfer 2

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 10. REVERSAL 2** :
 Outputs : Reversal 2 / Main

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 11. DOZING** :
 Outputs : Dozing / Main / Reel

NO.	Parameter	Description	Range
1	Time Min	Total time of the operation	0-100 Min
2	Ontime Sec	Time for which dozing output remains on	0-1000 Sec
3	Offtim Sec	Time for which dozing output remains off	0-1000 Sec

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- 12. Fill C.T.** :To Fill the Color Tank.
Outputs : Fill CT / Main / Reel

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 13. DRAIN C.T.** :To Drain the Color Tank.
Outputs : Drain CT / Main / Reel

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 14. REVERSAL 3 :**
Outputs : Reversal 3/Recovery

NO.	Parameter	Description	Range
1	Time Sec	Total time of the operation	0-1000 Sec

- 15. NO OPER.** : To define the end of the program.

- 16. PROG END** : No operation to take place / the step is simply omitted.

Other Parameters :

NO.	Parameter	Description	Range
1	Passwd	Enter password to edit the parameters.	
2	Set pass	Enter fresh password if required.	
3	ProgNo.	The program no. presently loaded	0-50
4	PresOn C	The temperature set point at which the pressurization is turned on.	0-150 Degree C
5	Error C	The permissible error in temperature during Heating and Cooling	0-100 Degree C
6	Rel Dly Sec	The delay for star delta starter for reel motor	0-100 Sec

Note: Parameter 2 & 3 can be seen & edited only if correct password is entered.

Note: If the password is forgotten then enter fresh password.

To enter fresh password, switch on the unit keeping SAVE key pressed.
Enter into other parameters menu by pressing PREV key, now parameter 2 is accessible.
Enter Fresh password, press SAVE key.

How to Program:

Operation Program Mode:

1. To enter the Operation Program mode, press PRG Key once.
The display shows first line as follows :
PxxNxx (Selected Function)
Where,
Pxx > Program No. currently selected
Nxx > Step no. at present loaded for programming Name of the selected function)
second line as follows :
>Select Function
2. Use Next Fun & Prev Fun keys to select the function required at current step.
3. Use SAVE key to save the operation to current step and to set further related parameters of the selected Function.
4. Use INC key to increment / change the selected digit / value
5. Use SFT key to shift the selected digit
6. Use SAVE key to save the parameter and to move to the next parameter in the selected operation.
7. To move to next step, press NEXT key once.
8. To move to previous step, press PREV key once.
9. Press PRG Key once again to exit from the program mode.

Other Parameters Program Mode : To program the other parameters, press PREV key once.

The display shows first line as follows :

> Pxx .Parameters.

The second line shows the currently selected parameter & the value.

➤ ProgNo. Xx

1. Use INC key to increment / change the selected digit / value
2. Use SFT key to shift the selected digit
3. Use SAVE key to save the current parameter and switch to next parameter.
4. Use PRG key once to exit the Other Parameter Program Mode.

Key Operations :

Program Mode :

1. INC : To increment / change the selected digit
2. SFT : To shift the digit selected.
3. SAVE : To save the current parameter and to move to next parameter.
4. NEXT : To move to the next operation
5. PREV : To move to previous operation

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To enter Parameter Program Mode.

6. NXT FUNC : To move to next function selection
7. PRV FUNC : To move to previous function selection
8. PRG : To enter the operation Program mode.

Normal Mode :

1. RUN/HOLD : To run the auto cycle program.
2. NEXT : To skip the currently running step.

Running Display :

1. PxxNyy (Function)
Pxx : Program No.
Nyy : Step No.
(Function) : Function running presently OR Manual if not running
2. 2nd line shows the current operation parameter values.
3. Proc xxx Stp xxx Min
Proc : Total Process Time in Minutes
Stp : Current Step Time in Minutes
4. Act Temp. xxx C Pr. Off
Act Temp. : Present Temperature C
Pr. : On/Off - Pressurization Output Status