Technical Data Sheets

BLACK&WHITE

CT / CTS / CTMcool

SECTION 1

# **OVERVIEW OPERATION**

# therm©plan

### Technical Data Sheets

# BLACK&WHITE

SECTION 1

### Document: Overview

### Modification journal

Revision:	Data:	Modification	Initials:
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### **Overview modifications**

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# Technical Data Sheets

# BLACK&WHITE 3

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### Technical Data Sheets

### BLACK&WHITE

Steam module

High capacity 4-litre boiler for continuous unlimited steam and hot water supply.

Module System

SECTION 1

# Brewing module

 2 grinders. The stainless steel brewing unit guarantees top coffee taste.

# Hydraulic module Hot water preparation, water distribution, coffee boiler, pump, valve block.

# The Module System

BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

### **Technical Data Sheets**

# BLACK&WHITE

### Models

### SECTION 1

# Models



### The CT (Coffee/Tea) - The basic model:

- Coffee, hot water
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

The CT prepares coffee and hot water and its mere 350 mm in width allows to fit on any countertop.

Capacity:	240 espresso, 200 coffees, 100 teas / h
Connection:	230V / 50-60Hz / 2800W / 13A
Dimensions:	350x600x700mm (w/d/h)
Weight:	55kg



### The CTS (Coffee/Tea/Steam):

- Coffee, hot water, steam
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

The CTS model is the right choice for traditional milk preparation with steam.

Capacity:	240 espresso, 200 coffees, 240 teas / h
105	endless steam supply
Connection:	230/400V / 50-60Hz / 6900W / 30/13A
Dimensions:	516x616x696mm (w/d/h)
Wajaht	78kg



### The CTM (Coffee/Tea/Milk):

- Coffee, hot water, milk, foam
- Grinder 1 integrated, grinder 2 optional
- Touch Screen operation
- Random programming of choice of products
- Fully automatic cleaning system

Whether hot or cold, the CTM makes preparing coffee or milk specialties a success.

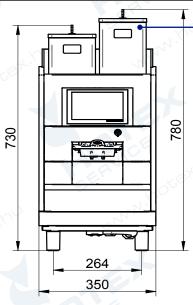
Capacity:	240 espresso, 200 coffees, 100 teas, 130 cappuccino, 140 lattinos / h
Connection:	2x230V / 50-60Hz / 2800W/100W / 13/1A
Dimensions:	600x600x700mm (B/T/H)
Weight:	77.5kg

### **Technical Data Sheets**

optional

### BLACK&WHITE

### CUT SHEET CT



BLACK&WHITE3 represents another innovation from Thermoplan.

The CT prepares coffee and hot water and its mere 350 mm in width allows to fit on any countertop.

### Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display

### The module system

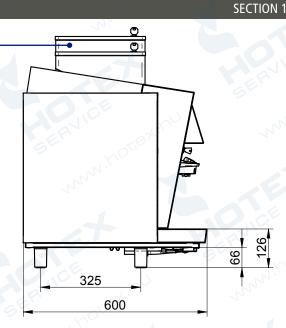
BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

### Modern operational concept

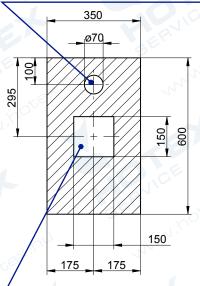
The large, colourful touchscreen flexibly supports all products and can be adapted to your special requirements.

The cleaning key makes care easy.

All work steps, such as filling the beans, emptying the grounds drawer or starting the automatic cleaning process are easy to operate.



Hole diameter 70mm for water inlet and outlet Also possible for electric cords



Hole 150x150mm for coffee grounds drawer, special grounds drawer needed

The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

Capacities	240 Espressi, 200 coffee, 100 Tea / h		
Bean hoppers	1.5kg each, optional 2.2kg		
Connection	230V / 50-60Hz / 2800W / 13A		
	208V / 50-60Hz / 2300W / 11A		
Dimensions	350x600x730mm (WxDxH)		
Weight	55kg		

None				
70 to 200 ppm				
5 - 8° dH (8 - 14° fH)				
6.8 to 7.4				
less than 100 ppm				
less than 0.25 ppm				

### Conversion table "Water hardness"

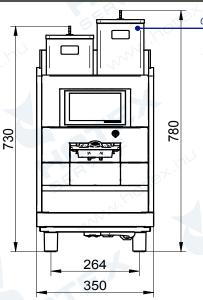
Water Hardness	German	French	Englisch	Ppm	Mval/I
1° dH	1.0	1.79	1.25	17.8	0.357
1° fH	0.56	1.0	0.7	10.0	0.2
1° e	0.8	1.43	1.0	14.3	0.286
1° ppm	0.056	0.1	0.07	1.0	0.02
1 mval/l	2.8	5.0	3.5	50.0	1.0

### **Technical Data Sheets**

# BLACK&WHITE

SECTION '

### CUT SHEET CTM WITHOUT REFRIGERATOR



BLACK&WHITE3 represents another innovation from Thermoplan.

Whether hot or cold, the CTM makes preparing coffee or milk specialties a success.

### Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display
- New "Wendel" milk system

### The module system

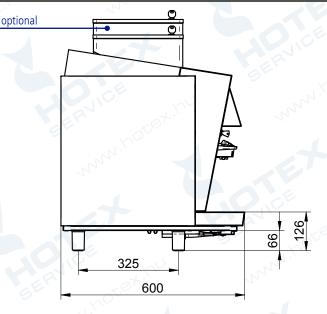
BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

### Modern operational concept

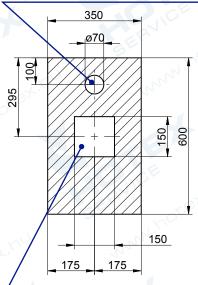
The large, colourful touchscreen flexibly supports all products and can be adapted to your special requirements.

The cleaning key makes care easy.

All work steps, such as filling the beans, emptying the grounds drawer or starting the automatic cleaning process are easy to operate.



Hole diameter 70mm for water inlet and outlet Also possible for electric cords



Hole 150x150mm for coffee grounds drawer, special grounds drawer needed

Capacities	240 espressi, 200 coffee, 100 tea, 130 cappuccino, 140 lattino / h
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 2800W / 13A
	208V / 50-60Hz / 2300W / 11A
Dimensions	350x600x730mm (WxDxH)
Weight	55kg

### The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

V V -				
None				
70 to 200 ppm				
5 - 8° dH (8 - 14° fH)				
6.8 to 7.4				
less than 100 ppm				
less than 0.25 ppm				

### Conversion table "Water hardness"

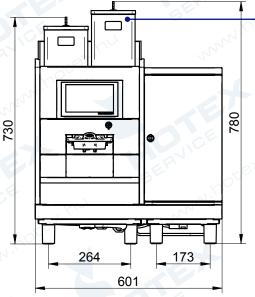
Water Hardness	German	French	Englisch	Ppm	Mval/l
1° dH	1.0	1.79	1.25	17.8	0.357
1° fH	0.56	1.0	0.7	10.0	0.2
1° e	0.8	1.43	1.0	14.3	0.286
1° ppm	0.056	0.1	0.07	1.0	0.02
1 mval/l	2.8	5.0	3.5	50.0	1.0

### **Technical Data Sheets**

optional

### BLACK&WHITE

### CUT SHEET CTM WITH REFRIGERATOR



BLACK&WHITE3 represents another innovation from Thermoplan.

Whether hot or cold, the CTM makes preparing coffee or milk specialties a success.

Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Chrome plated steel front panel
- Touchscreen with LCD display
- New "Wendel" milk system

### The module system

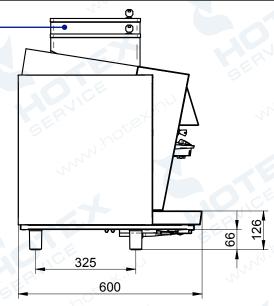
BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

### Modern operational concept

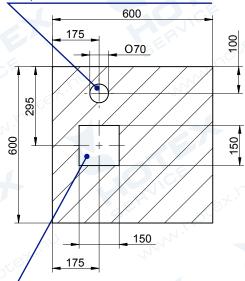
The large, colourful touchscreen flexibly supports all products and can be adapted to your special requirements.

The cleaning key makes care easy.

All work steps, such as filling the beans, emptying the grounds drawer or starting the automatic cleaning process are easy to operate.



Hole diameter 70mm for water inlet and outlet Also possible for electric cords



Hole 150x150mm for coffee grounds drawer, special grounds drawer needed

Capacities	240 espressi, 200 coffee, 100 tea, 130 cappuccino, 140 lattino / h
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 2800W / 100W / 13A
	208V / 50-60Hz / 2300W / 100W / 11A
Dimensions	601x600x730mm (WxDxH)
Weight	77.5kg

### Conversion table "Water hardness"

Water Hardness	German	French	Englisch	Ppm	Mval/l
1° dH	1.0	1.79	1.25	17.8	0.357
1° fH	0.56	1.0	0.7	10.0	0.2
1° e	0.8	1.43	1.0	14.3	0.286
1° ppm	0.056	0.1	0.07	1.0	0.02
1 mval/l	2.8	5.0	3.5	50.0	1.0

The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

Chlorine	None	
TDS	70 to 200 ppm	
Hardness	5 - 8° dH (8 - 14° fH)	
рН	6.8 to 7.4	
Alkalinity	less than 100 ppm	
Iron	less than 0.25 ppm	

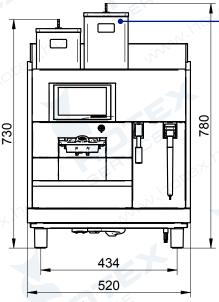
SECTION 1

### **Technical Data Sheets**

# **BLACK&WHITE**

**SECTION** 1

### CUT SHEET CTS



BLACK&WHITE3 represents another innovation from Thermoplan.

The CTS model is the right choice for traditional milk preparation with steam. Execution:

- Modular assembly
- Stainless steel brewing unit
- Heavy-duty aluminium grinder with ceramic burrs
- Steam pipe made of Peek<sup>™</sup>
- Manual and automatic steam output
- Chrome plated steel front panel
- Touchscreen with LCD display

### The module system

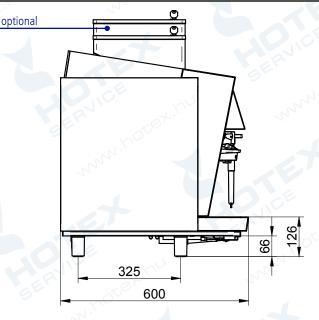
BLACK&WHITE3 is a modular assembly. Maintenance can thereby be carried out quickly and cost-effectively. All three modules are exchanged in an instant - that is unique for coffee machines.

### Modern operational concept

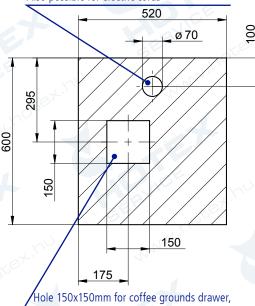
The large, colourful touchscreen flexibly supports all products and can be adapted to your special requirements.

The cleaning key makes care easy.

All work steps, such as filling the beans, emptying the grounds drawer or starting the automatic cleaning process are easy to operate.



Hole diameter 70mm for water inlet and outlet Also possible for electric cords



special grounds drawer needed

Capacities	240 espressi, 200 coffee, 240 tea, endless steam supply
Bean hoppers	1.5kg each, optional 2.2kg
Connection	230V / 50-60Hz / 6900W / 30A
	400V / 50-60Hz / 6900W / 13A
Dimensions	520x600x730mm (WxDxH)
Weight	78kg

### The unit requires a water connection of 3/8-inch. Pressure 2-4 bar / 30-60 psi

Chlorine	None
TDS	70 to 200 ppm
Hardness	5 - 8° dH (8 - 14° fH)
рН	6.8 to 7.4
Alkalinity	less than 100 ppm
Iron	less than 0.25 ppm

### Conversion table "Water hardness"

German	French	Englisch	Ppm	Mval/l
1.0	1.79	1.25	17.8	0.357
0.56	1.0	0.7	10.0	0.2
0.8	1.43	1.0	14.3	0.286
0.056	0.1	0.07	1.0	0.02
2.8	5.0	3.5	50.0	1.0
	1.0 0.56 0.8 0.056	1.0         1.79           0.56         1.0           0.8         1.43           0.056         0.1	1.0         1.79         1.25           0.56         1.0         0.7           0.8         1.43         1.0           0.056         0.1         0.07	1.0         1.79         1.25         17.8           0.56         1.0         0.7         10.0           0.8         1.43         1.0         14.3           0.056         0.1         0.07         1.0

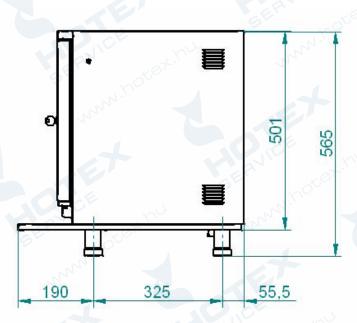
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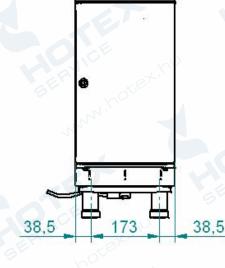
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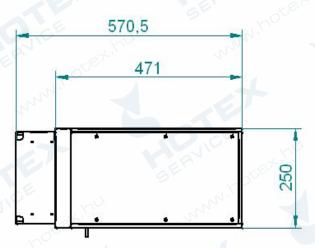
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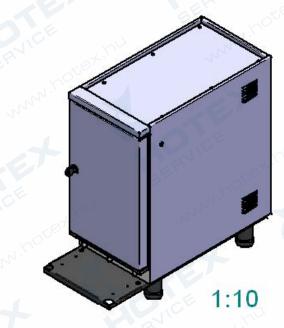
### CUT SHEET REFRIGERATOR

SECTION 1









Capacities	Storage of up to 5 litres cold milk
Connection	230V / 50-60Hz / 100W / 0.5A
	208V / 50-60Hz / 100W / 0.5A
Dimensions	250x570x565mm (B/T/H)
Weight	25kg

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General View		SECTION 1	
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Coffee grounds container			
Drainage tray			
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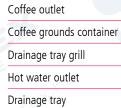
# BLACK&WHITE 3

General View

CTS

SECTION 1

Bean hopper mill 2 Bean hopper mill 1 Touchscreen



Steam outlet

### Technical Data Sheets

# BLACK&WHITE

### General View

CTMcool

SECTION 1

Refrigerator with milk container Bean hopper mill 2 Bean hopper mill 1 Touchscreen



Coffee grounds container

Drainage tray grill

Drainage tray

### Technical Data Sheets

# BLACK&WHITE 3

### Touchscreen CT / CTS / CTMcool

Function- / Product selection keys

**SECTION 1** 

