



 **TECNILABO**

COLD LINE

-90°C / +15°C



UltraFreezer HPL Line

PUSH



EXCELLENCE FOR YOUR LAB

COLD LINE

From -90°C to +15°C, the KW cold line offers highly configurable and innovative solutions, low energy consumption and full connectivity via the cloud.

- **Advanced technology**
- **Optimal insulation**
- **Automatic defrosting and anti-condensation**
- Integrated and remotely controlled **temperature and malfunction alarms**
- **Natural refrigerants** with low environmental impact
- Two temperature probes (system control and display), digital controller and remote alarm control to comply with the most **stringent GMPs in the pharma environment**. Additional probes connectable to BMS and IQ/OQ/PQ protocols for device qualification are also available
- **Safety control and disaster recovery**: guaranteed operation even in the event of T-probe and/or CPU failure



Certified devices for refrigeration in scientific research, pharma industry and healthcare sectors



PRODUCTS

**-80°C /
-90°C**

**Ultra-freezers
(ULT)**

**-10°C /
-45°C**

Freezers

**+5°C /
-30°C**

**Combined
Refrigerators
and Freezers**

**0°C /
+15°C**

**Biological
Refrigerators**



**Ice
Makers**

We guarantee high temperature
accuracy and maximum safety
for optima sample storage

ULTRA-FREEZER -80°C

-  **Silent and energy efficient**
-  **Perfect insulation** guaranteed by PUR foam and/or V.I.P. (Vacuum Insulation Panel) to increase the warm-up time
-  **Fast pull-down and recovery times** even with frequent openings and large sample loads
-  Inner case in **AISI 304** (AISI 316 optional)
-  Internal-external pressure compensation valve for easy opening
-  **Cascade system** with the use of **pure gases** for easy maintenance



Colour
Touchscreen
Display



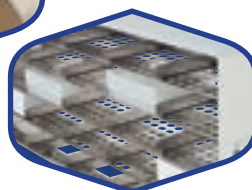
Remote alarm control
and LAN connection



Triple heated gasket
to prevent ice
formation



Accessories: drawers,
front or lateral extraction
racks, cardboard or
polypropylene boxes, CO₂
or LN₂ backup



VERTICAL

(PUR insulation)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES	DOUBLE DOOR
K57	122	500x450x540	890x825x1280	72	
K56	261	501x470x1108	890x855x1820	144	
K58	358	702x460x1110	1050x840x1840	240	✓
K60	506	702x650x1110	1050x1030x1840	320	✓
K62	606	802x590x1280	1160x970x1999	400	✓
K64	708	802x690x1280	1160x1070x1999	500	✓
K66*	809	852x730x1300	1200x1110x1999	600	✓

*VIP insulation

HORIZONTAL

(PUR insulation)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
K52	110	550x400x500	900x840x1270	56
K52E	174	642x492x550	900x840x1270	64
K54	230	1150x400x500	1500x870x1270	128
K54E	334	1240x490x550	1500x870x1270	192
K55	476	1220x520x750	1935x910x1110	288
K55E	705	1860x480x790	2550x874x1120	468
K5578	801	1780x600x750	2488x982x1100	576



ULTRA SLIM

(VIP insulation)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
K58US	349	490x570x1248	765x935x1875	240
K60US	501	588x656x1300	885x1032x1949	320
K62US	577	600x770x1248	875x1110x1875	400
K66US	831	730x850x 1340	994x1141x1965	600

UNDER THE COUNTER

(VIP insulation)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
KUB75	86	428x343x588	990x635x780	48



Available in under the counter version compatible with Labosystem WSplug furniture

ULTRA-FREEZER -80°C

BIOLOGICAL BANK VERSION

ULT -80°C freezers are also available in the version *Biological Bank* for **maximum storage safety of samples**.

Designed for use in biobanks.

Twin group

Two independent cascaded two-stage systems with alternating operation doubling the lifespan of the freezer

VERTICAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES	DOUBLE DOOR
K56S	266	501x470x1108	1185x955x1820	144	
K58S	358	702x460x1110	1050x1020x1840	240	✓
K60S	506	702x650x1110	1050x1210x1840	320	✓
K62S	606	802x590x1280	1160x1150x1999	400	✓
K64S	708	802x690x1280	1160x1250x1999	500	✓
K66S	809	852x730x1300	1200x1290x1999	600	✓

Constant temperature of -80°C even with one operating system only

HORIZONTAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
K52S	110	550x400x500	900x840x1270	56
K52ES	174	642x492x550	900x840x1270	64
K54S	230	1150x400x500	1500x870x1270	128
K54ES	334	1240x490x550	1500x870x1270	192
K55S	476	1220x520x750	2395x910x1110	288
K55ES	705	1860x480x790	2990x874x1120	468
K5578S	801	1780x600x750	2948x982x1100	576

Booster Mode

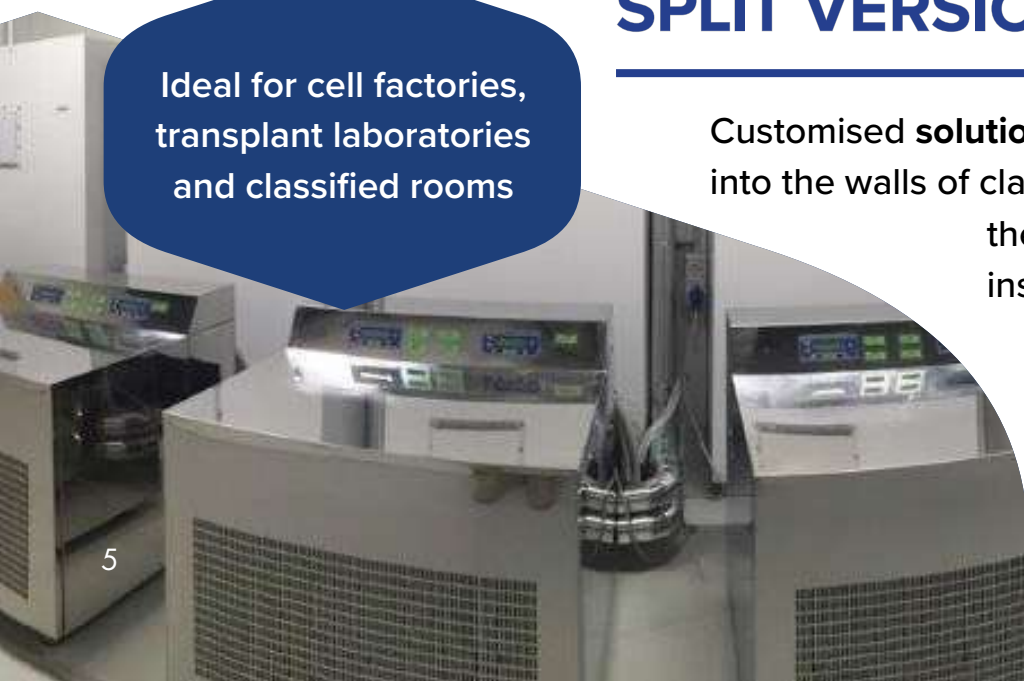
Temporary activation of the two systems after opening the door:

- temperature reduction of small quantities of samples
- from +15°C to -80°C in less than 2 hours

SPLIT VERSION

Ideal for cell factories, transplant laboratories and classified rooms

Customised **solutions** to incorporate freezers into the walls of classified rooms, ensuring no thermal-acoustic pollution inside the chamber.



ULTRA-FREEZER -80°C

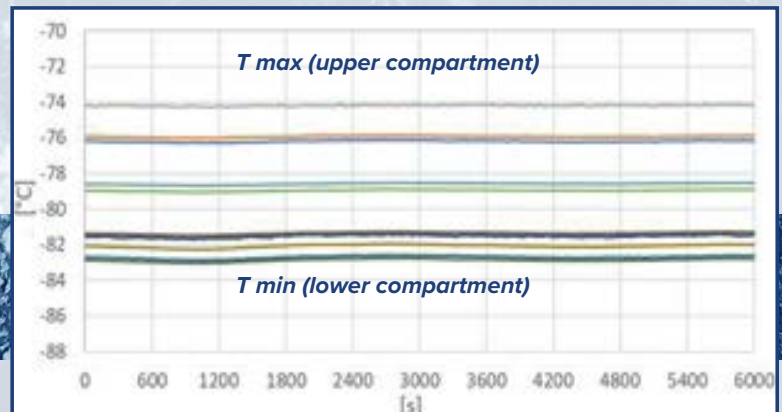
ULTRA PERFORMANCE VERSION

The Ultra Performance version of ULT freezers guarantees **maximum temperature stability** with **reduced energy consumption**.

Variable-speed compressors with inverter technology

Perfect thermal insulation guaranteed by PUR and V.I.P.

Sustainable materials



Available in Standard or Ultra Slim versions

-90°C VERSION



The hottest point has a temperature lower than -82°C

Low energy consumption

Perfect insulation guaranteed by PUR foam and V.I.P.

Reduced operation and stress on the refrigeration system



FREEZER -20°C / -45°C

A line with **maximum performance** ($\pm 5^{\circ}\text{C}$) and **reliability**, with reduced power consumption levels.

VERTICAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES	DOUBLE DOOR VERSION
K4057	122	500x450x540	890x825x1820	72	
K4056	261	501x470x1108	890x855x1820	144	
K4058	358	702x460x1110	1050x840x1840	240	✓
K4060	506	702x650x1110	1050x1030x1840	320	✓
K4062	606	802x590x1280	1160x970x1999	400	✓
K4064	708	802x690x1280	1160x1070x1999	500	✓
K4066	809	852x730x1300	1200x1110x1999	600	✓

HORIZONTAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
K4052	110	550x400x500	900x840x1270	56
K4052E	174	642x492x550	900x840x1270	64
K4054	230	1150x400x500	1500x870x1270	128
K4054E	334	1240x490x550	1500x870x1270	192
K4055	476	1220x520x750	1935x910x1110	288
K4055E	705	1860x480x790	2550x874x1120	468
K405578	801	1780x600x750	2488x982x1100	576

UNDER THE COUNTER

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
KUB4075	86	428x343x588	990x635x780	48

**-50°C
VERSION**



The hottest point has a temperature lower than -45°C



Reduced energy consumption



Perfect insulation guaranteed by 140mm of polyurethane foam



AISI 304 internal surface

Reduced operation and stress on the refrigeration system

FREEZER -20°C / -45°C BIOBANK VERSION

The -45°C freezers are also available in the version *Biological Bank* for an extremely safe **storage** of samples.

Twin group

Two independent systems that guarantee maximum safety even in the event of faults

VERTICAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES	DOUBLE DOOR VERSION
K4056S	266	501x470x1108	1185x955x1820	144	
K4058S	358	702x460x1110	1050x1020x1840	240	✓
K4060S	506	702x650x1110	1050x1210x1840	320	✓
K4062S	606	802x590x1280	1160x1150x1999	400	✓
K4064S	708	802x690x1280	1160x1250x1999	500	✓
K4066S	809	852x730x1300	1200x1290x1999	600	✓

HORIZONTAL

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	BOXES
K4052S	110	550x400x500	900x840x1270	56
K4052ES	174	642x492x550	900x840x1270	64
K4054S	230	1150x400x500	1500x870x1270	128
K4054ES	334	1240x490x550	1500x870x1270	192
K4055S	476	1220x520x750	1935x910x1110	288
K4055ES	705	1860x480x790	2550x874x1120	468
K405578S	801	1780x600x750	2488x982x1100	576

Booster Mode

Temporary activation of both systems following door openings or increase in thermal load

SPLIT VERSION

Customised **solutions** to incorporate freezers into the walls of classified rooms, ensuring no thermal-acoustic pollution inside the chamber.



Ideal for cell factories, transplant laboratories and classified rooms

FREEZER -20°C/ -40°C

WITH AUTOMATIC DEFROST (KBPF HGD)



A line of high-performance **freezers** to meet even the most challenging conditions.

- Excellent insulation with 90mm of polyurethane foam
- AISI 304 internal surface
- Automatic hot gas defrosting, with maximum temperature increase 5°C
- AISI 304 drawers (optional)

Colour
Touchscreen
Display



Cloud data storage

400 to 600 litres
capacity



Remote alarm control
and LAN connection

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KBPF 400 HGD HTS	402	550x550x1330	730x800x1938
KBPF 600 HGD HTS	600	550x744x1425	730x933x1985

FREEZER -10°C/ -22°C

WITH AUTOMATIC DEFROST (KLAB F)



A line of freezers at **high flexibility** for modern laboratories.

Possibility of installing the refrigeration unit separately (SPLIT version)

400 to 1.500 litres capacity

Option with 2 alternating systems (TG version)

- Excellent insulation with 80mm of polyurethane foam
- AISI 304 internal surface
- Electric automatic defrosting
- Monobloc system to maximise internal storage volume
- Single and double door vertical solutions
- Available with optional AISI 304 outer surface
- AISI 304 drawers (optional)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	DOORS
KLAB F400C	365	500x530x1370	600x620x1900	1
KLAB F700C	600	590x670x1510	740x800x2030	1
KLAB F1500C	1315	1300x670x1510	1460x800x2030	2

FREEZER -20°C/ -40°C

WITHOUT AUTOMATIC DEFROST (KBPF)



A line of freezers at **reduced energy consumption** and **high performance** ($\pm 5^{\circ}\text{C}$).

- Excellent insulation with 90mm of polyurethane foam
- AISI 304 internal surface
- Under the counter and vertical versions for **maximum flexibility**
- AISI 304 drawers (optional)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KBPF 100 HTS	127	550x550x420	730x790x832
KBPF 250 HTS	254	550x550x840	730x800x1448
KBPF 400 HTS	402	550x550x1330	730x800x1938
KBPF 600 HTS	632	550x760x1512	730x950x2140



Two internal counter doors (optional)
on model
KBPF 600 HTS

100 to 600 litres
capacity

FREEZER -10°C/-30°C

WITHOUT AUTOMATIC DEFROSTING (KFS)



A line of freezers at **maximum reliability** that meets the most stringent specifications.

100 to 600 litres capacity



- Excellent insulation with 90mm of polyurethane foam
- AISI 304 internal surface
- Under the counter and vertical versions for **maximum flexibility**
- AISI 304 drawers (optional)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KFS 100 HTS	127	550x550x420	730x790x832
KFS 250 HTS	254	550x550x840	730x800x1448
KFS 400 HTS	402	550x550x1330	730x800x1938
KFS 600 HTS	600	550x744x1425	730x933x1985

COMBINED SYSTEMS +5°C/-30°C

KRFS



- Excellent insulation with 90mm of polyurethane foam
- Vertical double-door solution
- Two solid or solid/glass doors
- AISI 304 internal surface
- Single display for both compartments with dual controllers
- Double porthole for external probes
- Automatic electric defrosting on refrigerator compartment

Refrigerator
capacity
240 litres,
freezer 140 litres

TEMPERATURE
of freezer
-10°C / -30°C



MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KRFS 2515	Refrigerator 240 Freezer 140	550x550x790 550x550x470	730x770x2010

COMBINED SYSTEMS +5°C/ -22°C

KLAB RF



Excellent insulation with 60mm of polyurethane foam



Vertical solution with solid door



AISI 304 internal surface



Single display for both compartments with dual controllers



Double porthole for external probes



Automatic electric defrosting of both compartments



Available with optional AISI 304 outer surface

**TEMPERATURE
of freezer
-10°C / - 2°C**

**273-273 or
600-600 litres
capacity**

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KLAB RF700CC HTS	Refrigerator 273 Freezer 273	590x670x690 590x670x690	710x800x2030
KLAB RF1500CC HTS	Refrigerator 600 Freezer 600	590x670x1510 590x670x1510	1420x800x2030

BIOLOGICAL REFRIGERATORS 0°C / +15°C

KBPR



- Excellent insulation with 65mm polyurethane foam
- Vertical solutions
- Solid or glass door
- AISI 304 internal surface
- AISI 304 drawers (optional)

Integrated safety thermostat with anti-freeze and anti-heat function

Air defrosting and condenser technology without forced ventilation

150 to 400 litres capacity

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KBPR 180	130	520x470x670	650x670x1100
KBPR 310	255	530x460x1400	670x670x1830
KBPR 400	310	530x460x1650	670x670x2080

BIOLOGICAL REFRIGERATORS 0°C / +15°C

KLAB R



- Excellent insulation with 80mm of polyurethane foam
- Vertical solutions with single or double door
- Solid or glass door
- AISI 304 internal surface
- Available with optional AISI 304 outer surface
- AISI 304 drawers (optional)
- Monoblock system** to maximise internal storage volume

Integrated safety thermostat with anti-freeze and anti-heat function

Possibility of installing the refrigeration unit separately (SPLIT version)

400 to 1.500 litres capacity

Option with 2 alternating systems (TG version)

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.	DOORS
KLAB R400	365	500x530x1370	600x620x1900	1
KLAB R700	600	590x670x1510	740x800x2030	1
KLAB R1500	1315	1300x670x1510	1460x800x2030	2

BIOLOGICAL REFRIGERATORS 0°C / +15°C

KBPR NG - UNDER THE COUNTER



- Height **84cm** for under the counter installation
- AISI 304 internal surface
- Solid or glass door
- Automatic defrosting
- Adjustable front levelling feet and rear wheels

Data logger function with USB port for data downloading



Under the counter version compatible with Labosystem WSplug furniture

MODEL	CAPACITY	INTERNAL DIM.	EXTERNAL DIM.
KBPR 180 NGX	150	477x443x652	598x620x838

ICE MAKERS

A line of ice makers for the most demanding laboratories.



Production of ice at **flakes** or at **cubes**



AISI 304 internal surface



Possibility of **air** or **water cooling**



Variable daily output

Production 50 to
200 kg/24h (flakes)

Production from
18 to 145 kg/24h
(Cubes)





TECNILABO

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