

MIURA ICELAND

FOREST 3000

instructions for installation

Document number: QSM000215E

Revision: “-”

Date of first issue: 26.Jan.2005

Date of this issue: 26.Jan.2005

COSTAN®

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 010 CHAPTER: CONTENTS	GENERAL REVISION STATUS OF DOCUMENT						PAGE: 1/1
	ORD.	DATE	FORWARD. DOC.	ORD.	DATE	FORWARD. DOC.	DATE of 1 st ISSUE: 26.Jan.2005
	AA			AD			ISSUED BY: MARKETING
	AB			AE			
	AC			AF			

CHAP. No.	CHAPTER	NUMBER OF PAGES	REVISION STATUS
010	CONTENTS	1	“_”
020	CROSS SECTIONS	2	“_”
030	INSTALLATION		
030.10	- Electrical, hydraulic and refrigerating connections of linear cabinets	1	“_”
030.20	- Connection of electrical board	1	“_”
030.30	- Position of probes	5	“_”
030.40	- Position of feet	1	“_”
030.50	- How to unpack the doors	1	“_”
040	MULTIPLEXING AND COMPLETING CABINETS	7	“_”
050	TECHNICAL SHEETS		
050.10	- electrical and refrigerating controls and settings	2	“_”
050.20	- electrical details of components	2	“_”
050.30	- refrigerating capacity requirements	1	“_”
050.40	- wiring diagrams	3	“_”

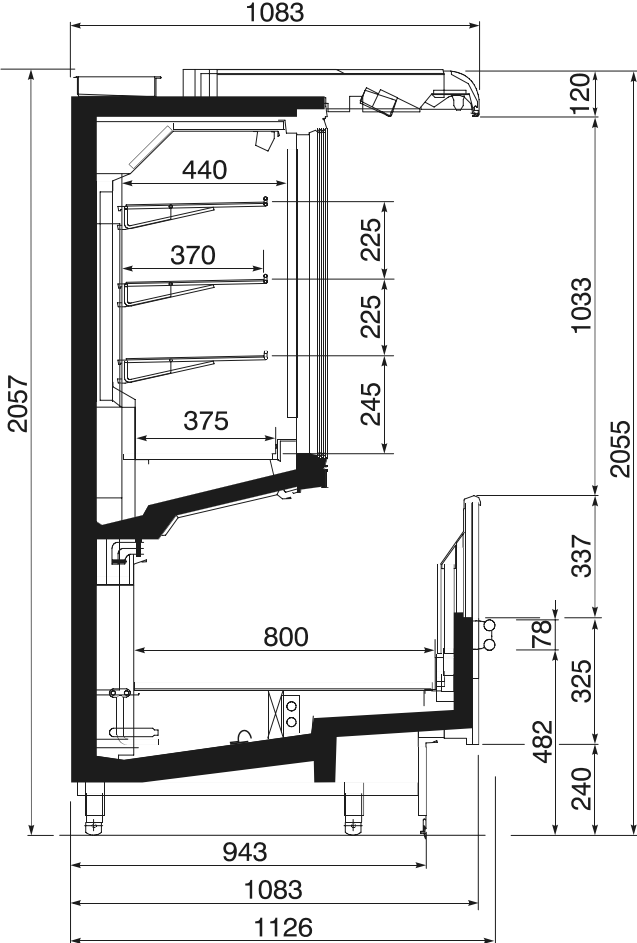
The wiring diagrams and setting specifications are contained in the display case, together with the “Instructions for use”

KEY

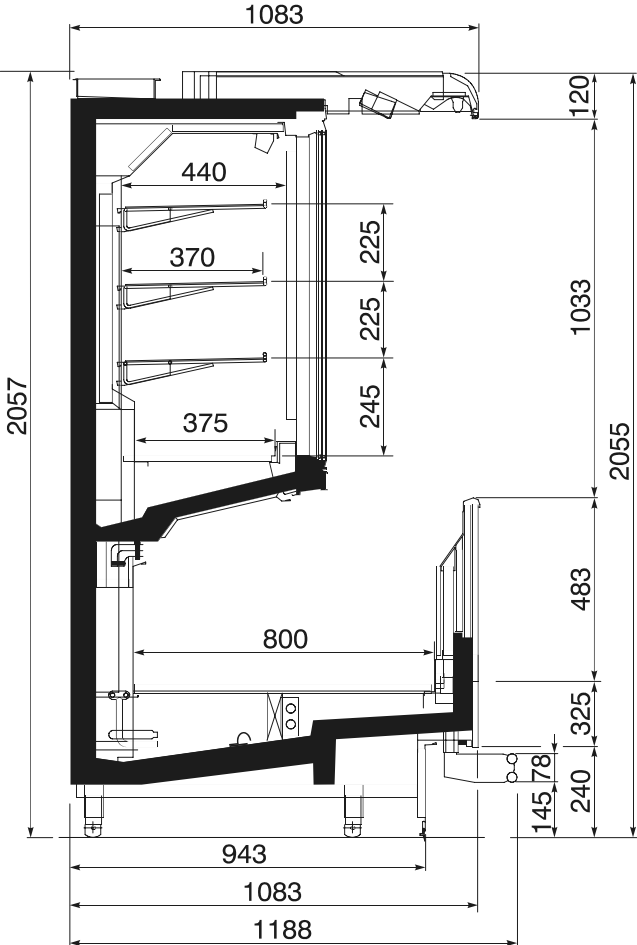
“_” First issue
A, B, C..... Chapter revision index
AA, BB, CC.. General revision index of document

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 020 CHAPTER: CROSS SECTIONS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL PAGE: 1/1 DATE of 1 st ISSUE: 26.Jan.2005 ISSUED BY: MARKETING
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER	
	A			D			
	B			E			
	C			F			

MIURA LG300 2000/2200 **- cross sections -**



MIURA LG300
h = 2000



MIURA LG300
h = 2200

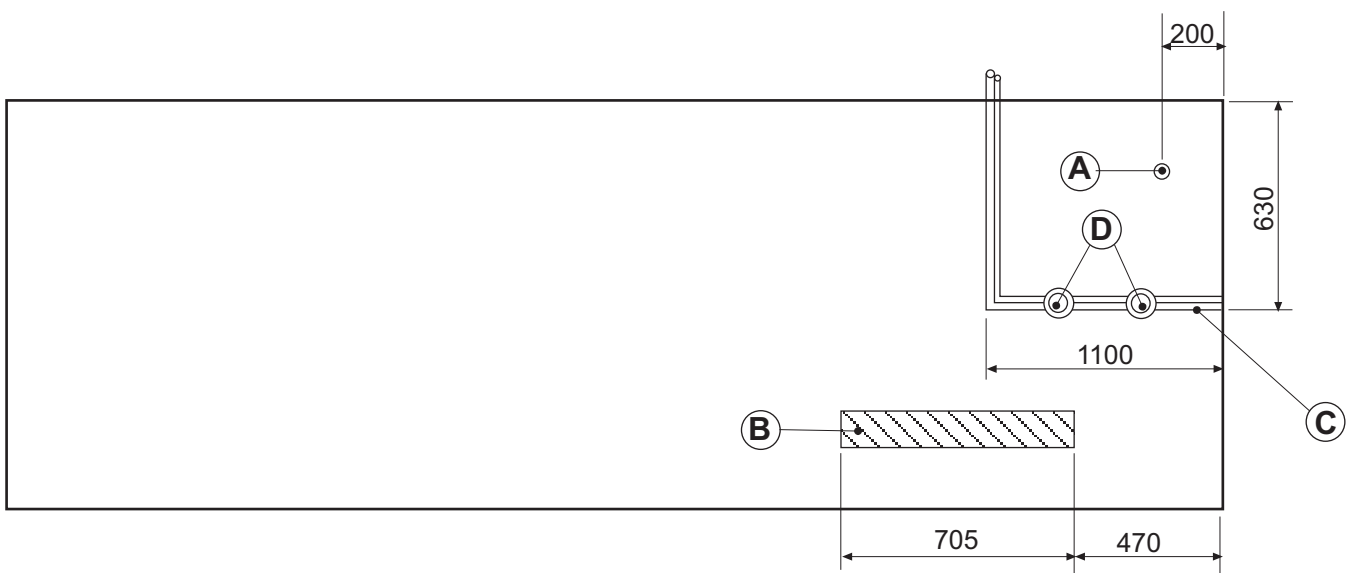
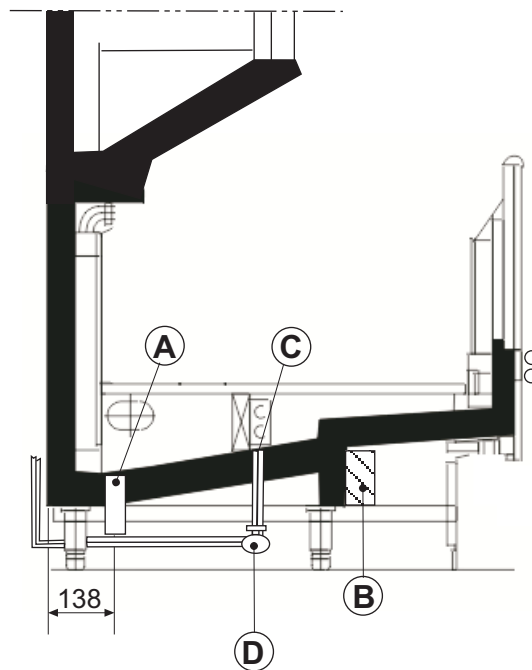
COSTAN [®] TECHNICAL DOCUMENTATION	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/1
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
PRODUCT: MIURA ICELAND	C			F				
DOC. no. QSM000215E CHAPTER no. 030.10								
CHAPTER: ELECTRICAL, HYDRAULIC AND REFRIGERATING CONNECTIONS - LINEAR CASES								

MIURA

- A WATER DRAIN
- B ELECTRIC CONNECTION
- C FREON CONNECTION
(lead-in pipes $\varnothing=10$ mm
lead-out pipes $\varnothing=20$ mm)
- D FREON COCKS

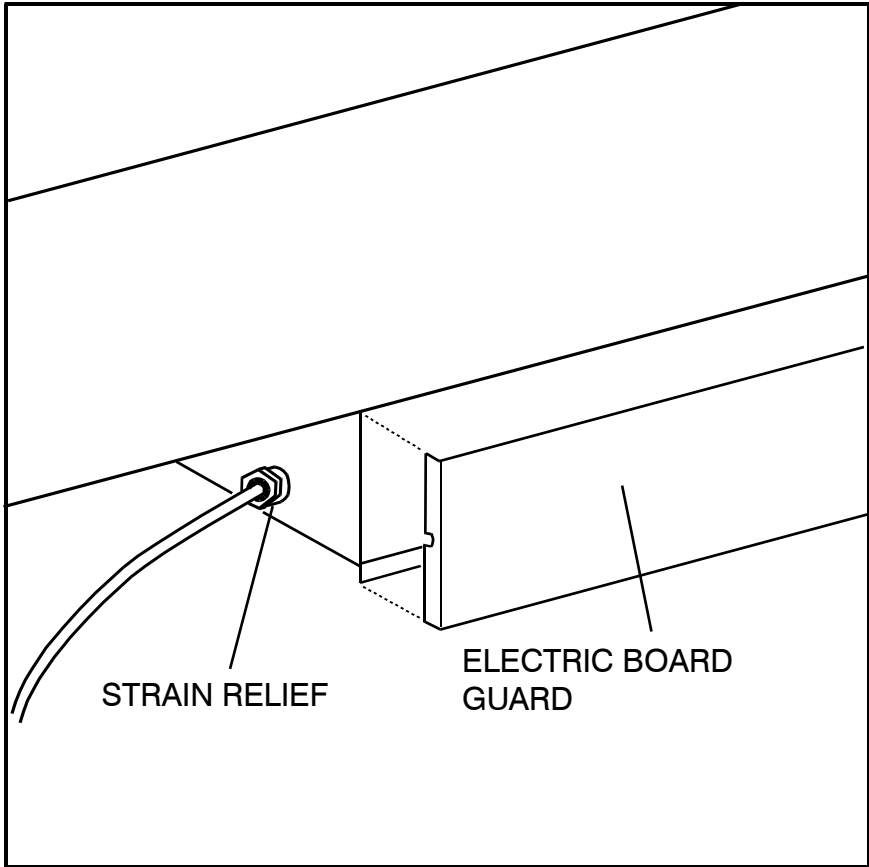
IMPORTANT: BE SURE THAT THE AD-HOC SUPPLIED U-TRAP IS INSTALLED ON THE DRAIN. SHOULD IT BE UNAVAILABLE, INSTALL A PROPER U-TRAP THAT MAY ENSURE THAT AIR DOES NOT ENTER OR EXIT THE DRAIN PIPE.

NOTE: MAKE SURE THAT THE FILTER DRYER SUPPLIED WITH THE FITTINGS BOX IS INSTALLED ON THE DISCHARGE PIPES.



COSTAN ® TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.20 CHAPTER: ELECTRICAL BOARD	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/1
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

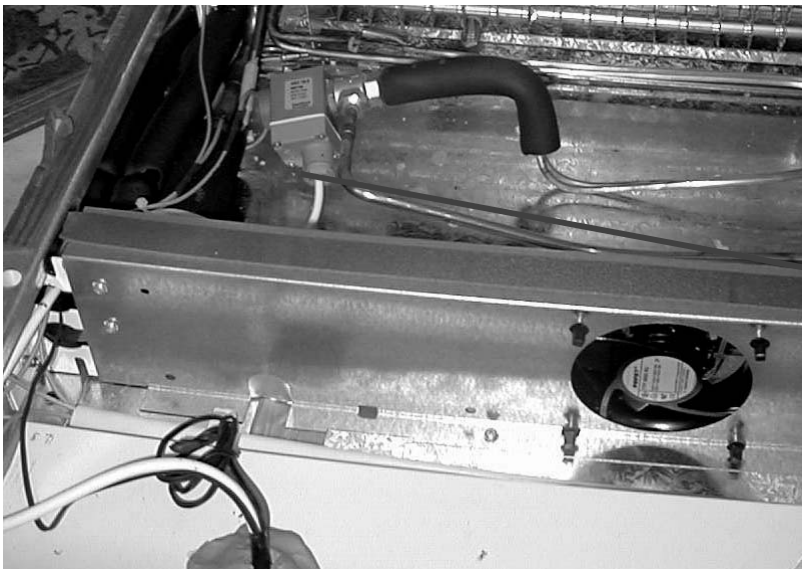
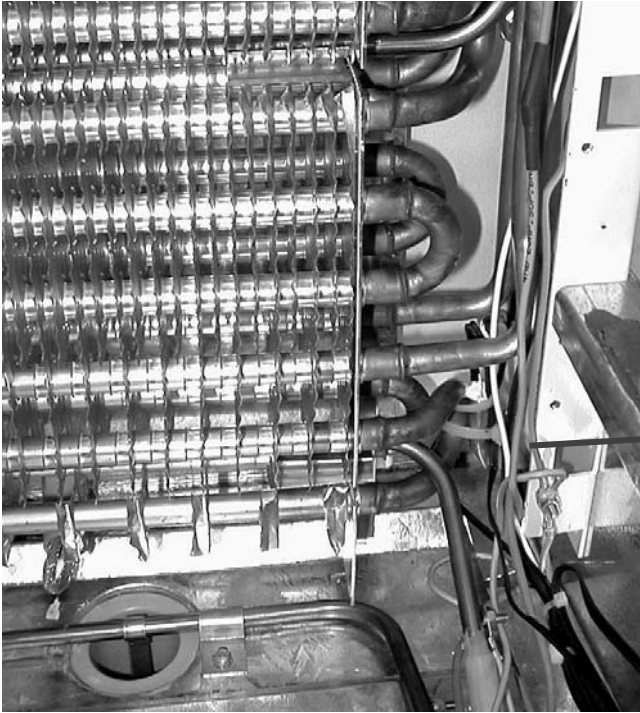
IMPORTANT: should there be a master electrical board, make sure that the electrical board guard is installed and that power supply cables are provided with a strain relief device and a seal whose size is adequate for the outer diameter of the cable.



COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.30 CHAPTER: POSITION OF PROBES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/5
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

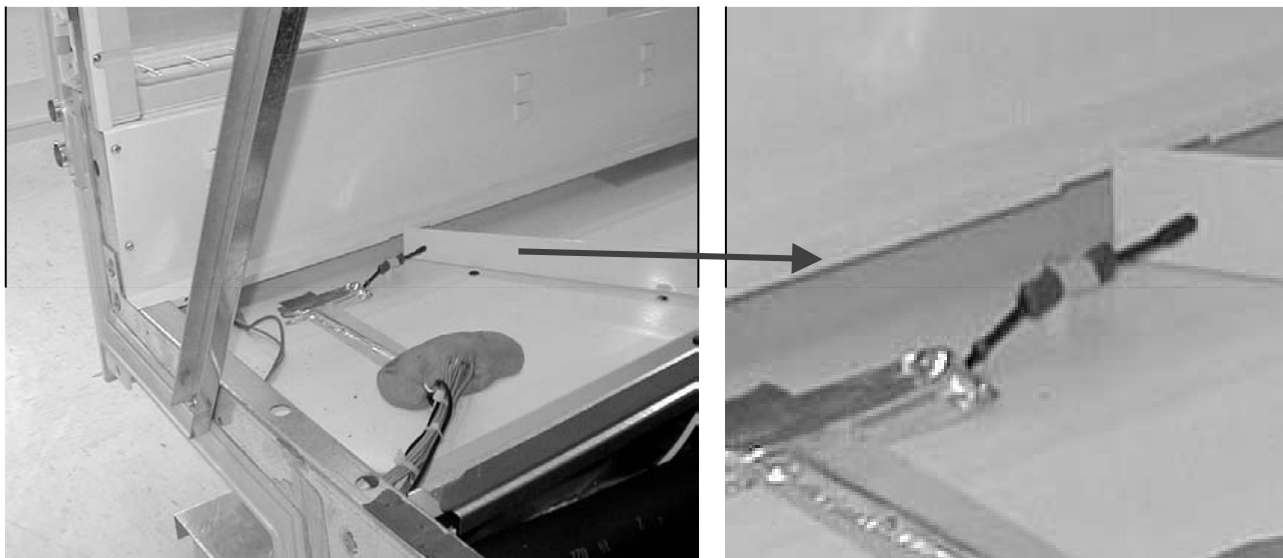
POSITION OF PROBES

Miura Tub (bottom) evaporator inlet probe position.

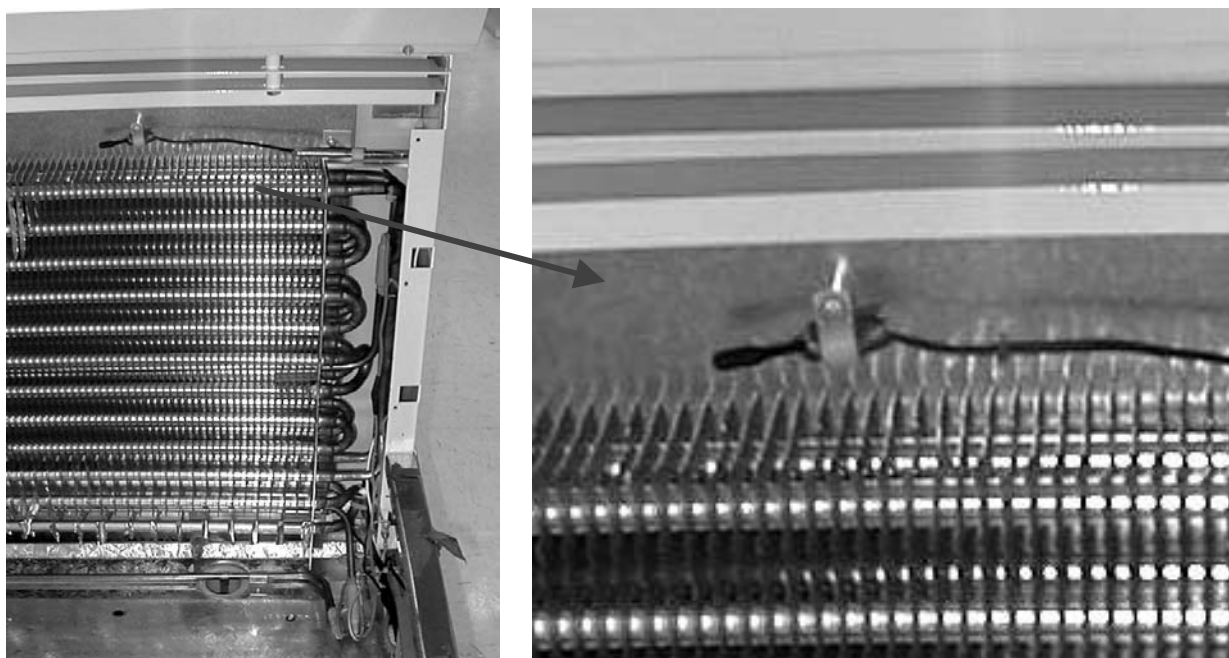


COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.30 CHAPTER: POSITION OF PROBES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL PAGE: 2/5 DATE of 1 st ISSUE: 26.Jan.2005 ISSUED BY: MARKETING
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER	
	A			D			
	B			E			
	C			F			

Miura tub (bottom) air on probe position lhs

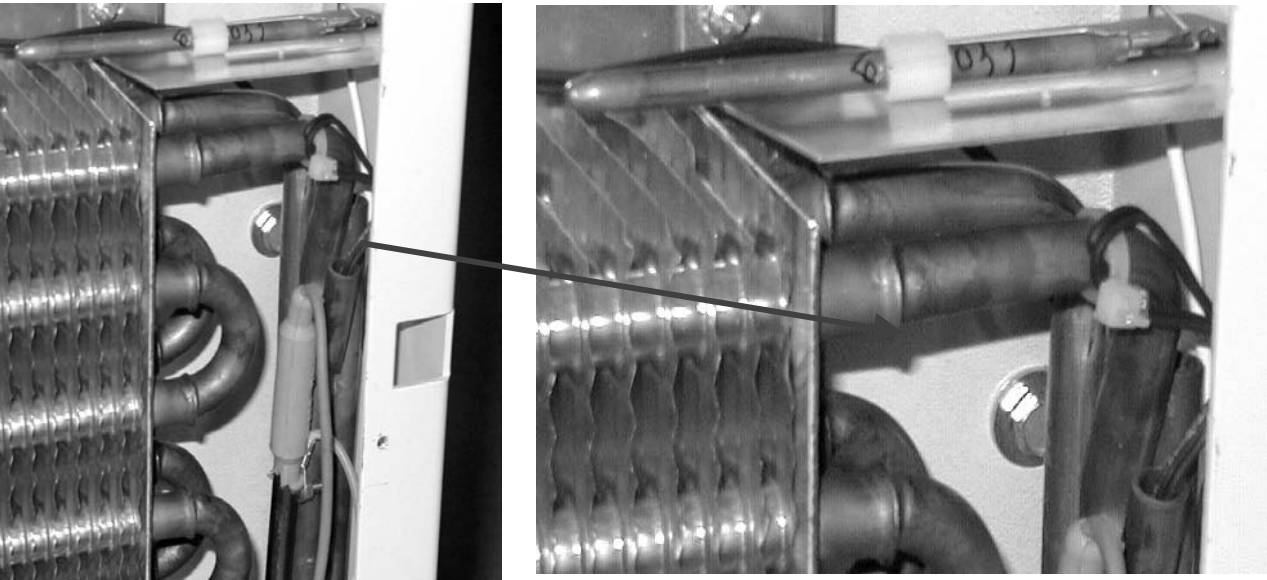


Miura tub (bottom) air off probe position rhs

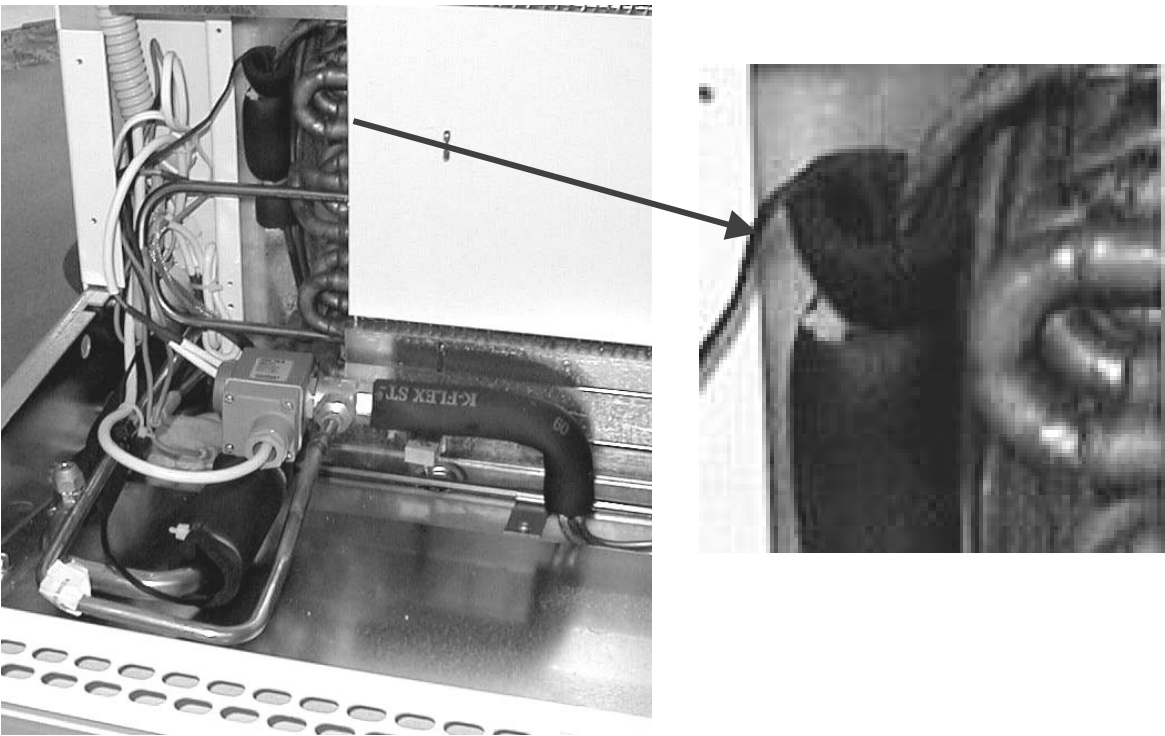


COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.30 CHAPTER: POSITION OF PROBES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 3/5
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

Miura tub (bottom) termination probe position bottom case rhs

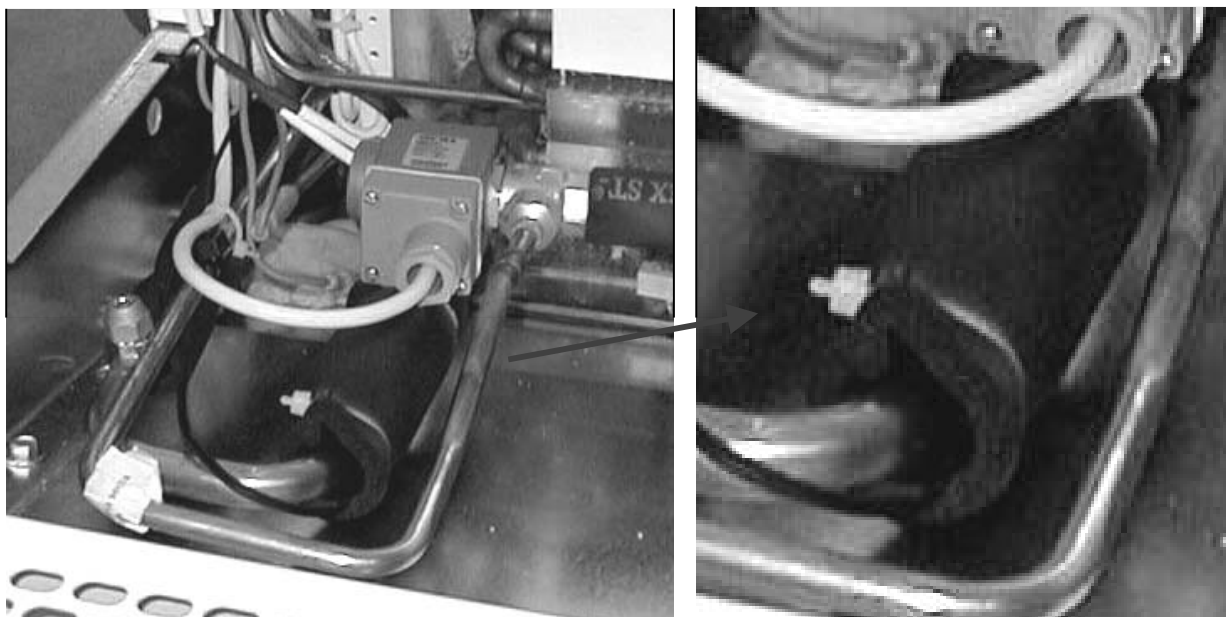


Miura top case evaporator inlet probe lhs with insulation covering

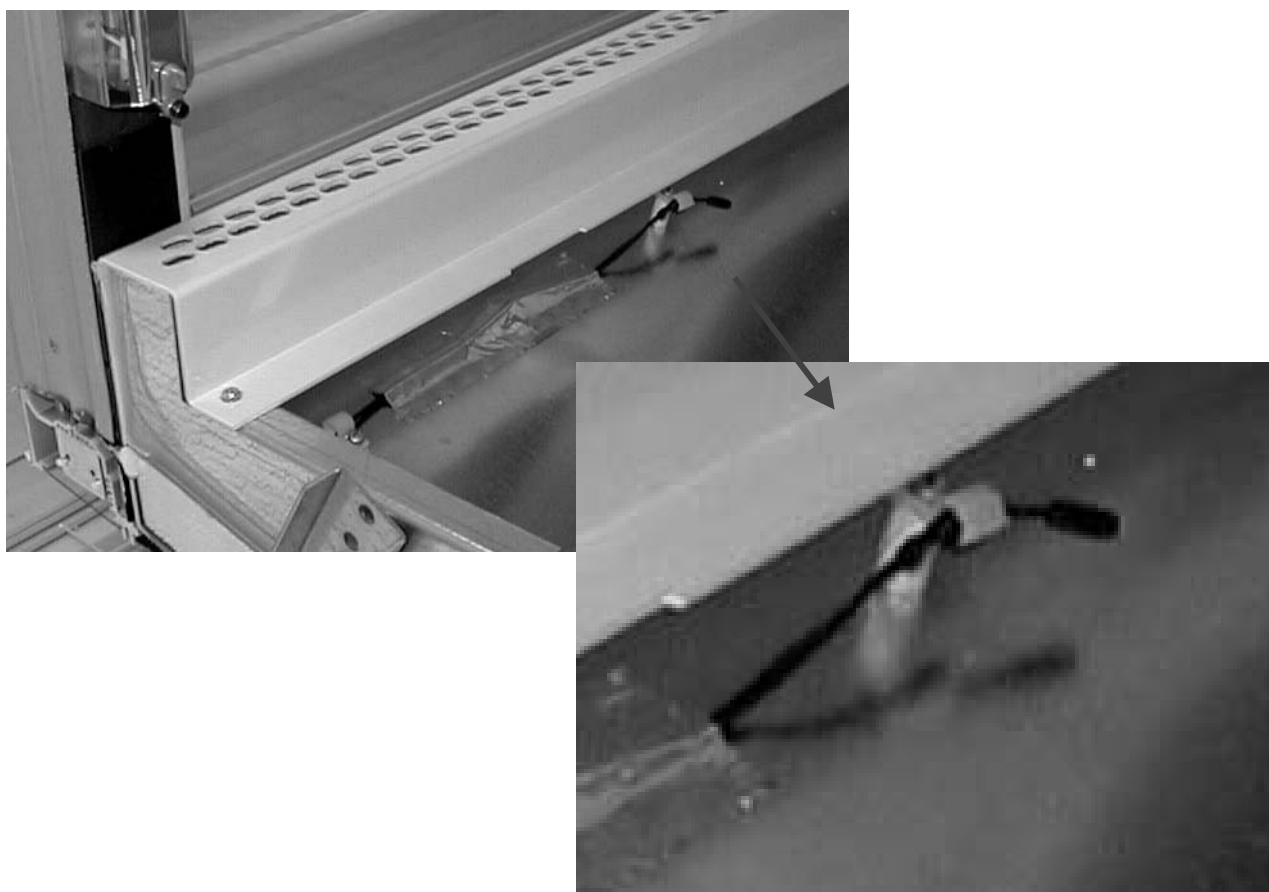


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	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

Miura top case suction probe lhs with insulation covering

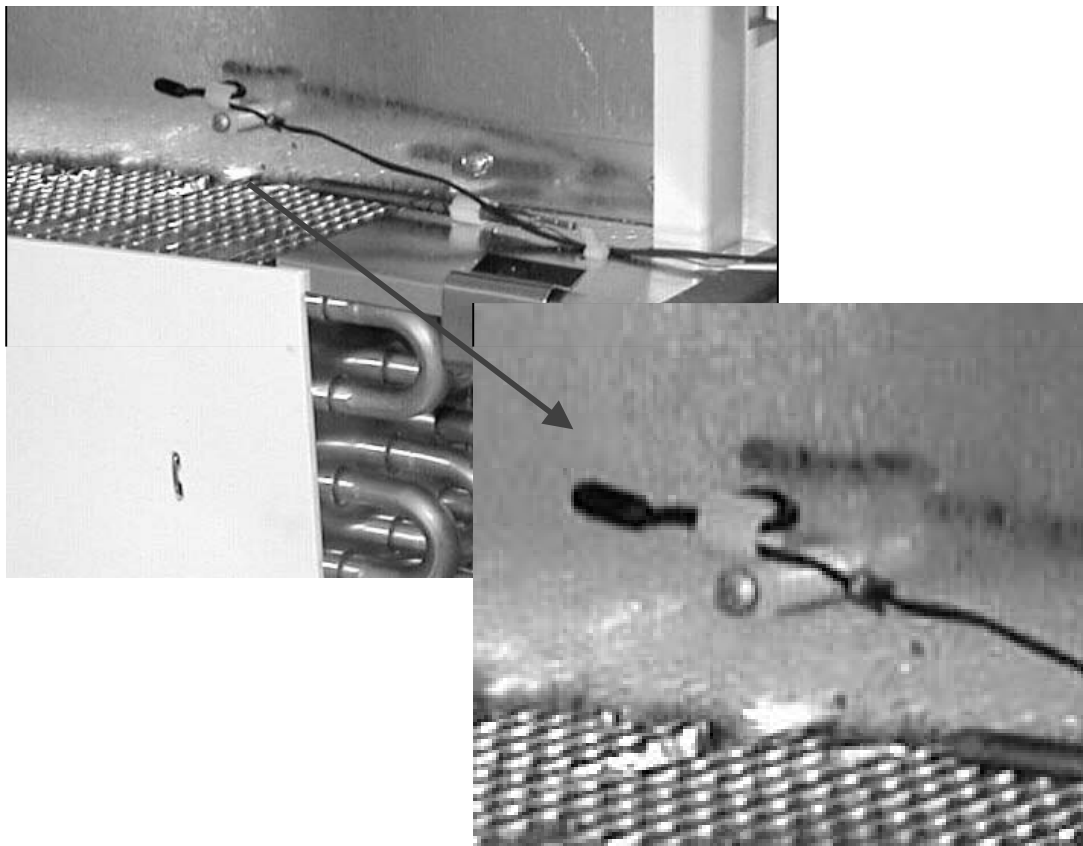


Miura top case air on probe position rhs of cabinet

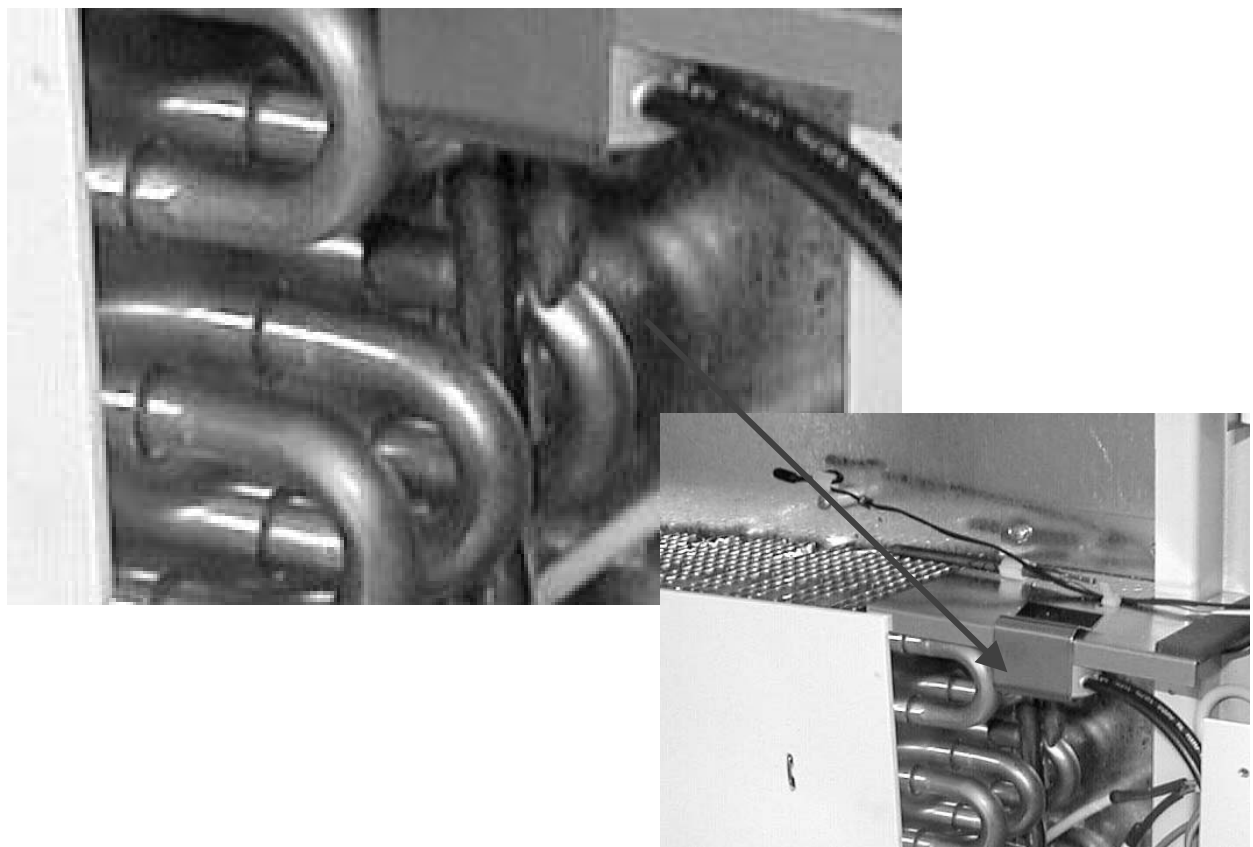


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	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

Miura top case air off probe position rhs of case

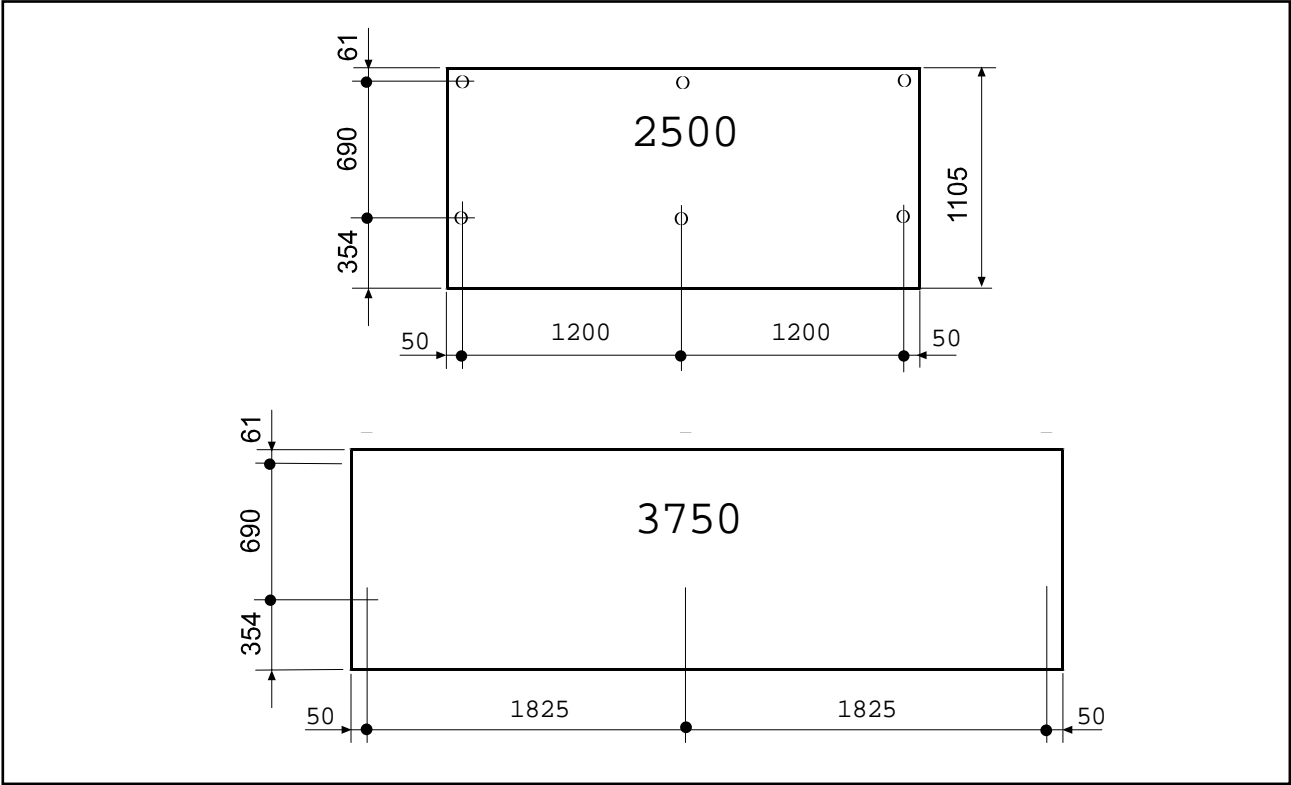


Miura top case termination probe positioned on rhs



COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.40 CHAPTER: POSITION OF FEET	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL PAGE: 1/1 DATE of 1 st ISSUE: 26.Jan.2005 ISSUED BY: MARKETING
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER	
	A			D			
	B			E			
	C			F			

MIURA - POSITION OF FEET

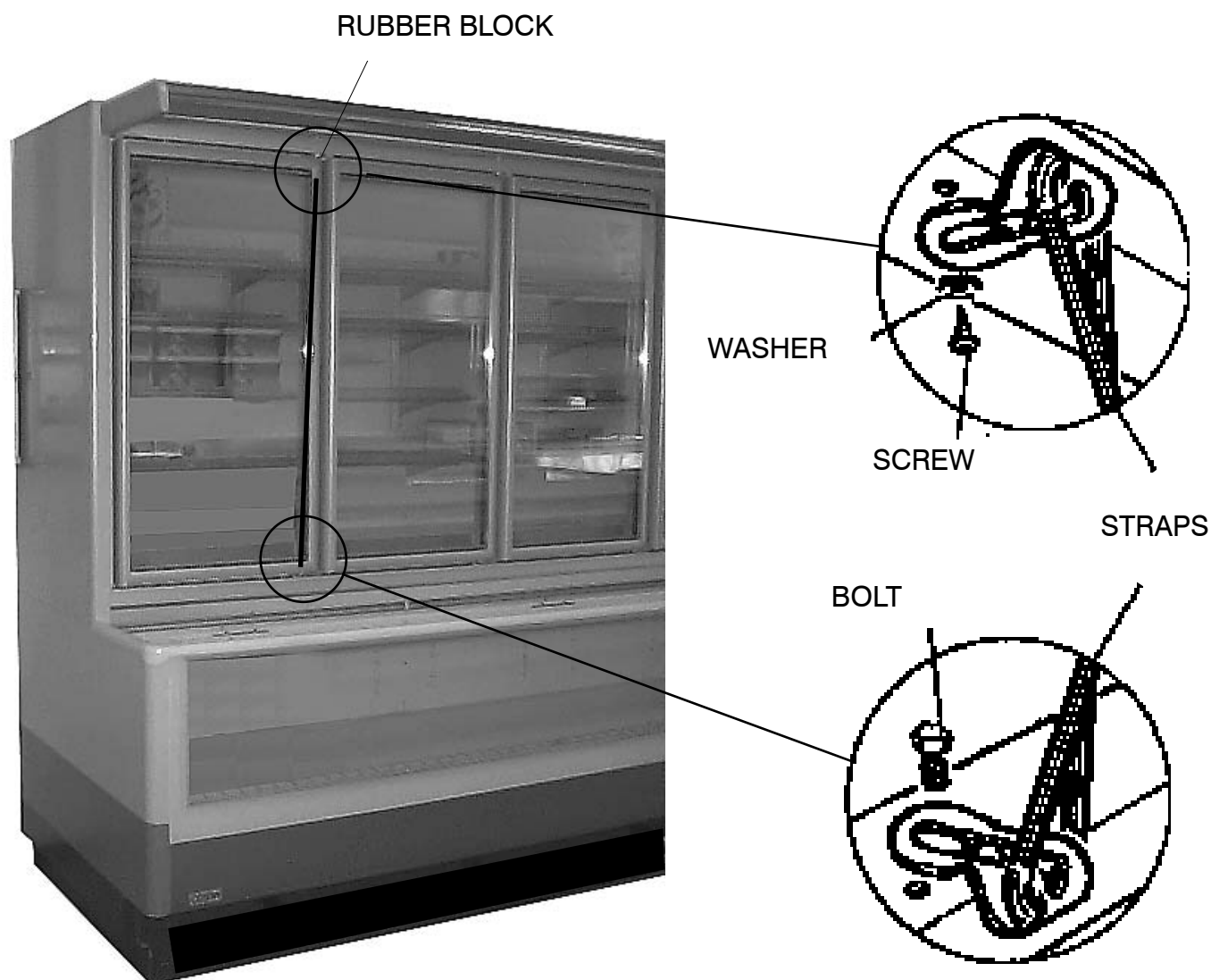


COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 030.50 CHAPTER: HOW TO UNPACK THE DOORS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/1
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

HOW TO UNPACK THE DOORS

- 1) Cut all straps.
- 2) Remove the rubber blocks holding the upper part of the doors. Open the doors, find the transparent envelope containing the plastic plugs, which is stuck to the glazing inside the superstructure. Detach the envelope and put it aside.
- 3) Unscrew the bolts fastening the straps down low and place the plastic plugs in the holes.
- 4) Unscrew the screws fastening the straps at the top of the frame. Remove the straps and then put the screws back in their original position (they are aimed to fasten the frame too).

Note: In order not to jeopardise the stability of the frame, the above instructions must be carried by steps, removing a single screw and putting it back after the strap has been withdrawn and before another screw is removed.



COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				
	B			E				
	C			F				ISSUED BY: MARKETING

MULTIPLEXING AND COMPLETING LINEAR CABINETS

- 010 UNPACK THE CABINETS**
- 020 REMOVE FRONT RISERS, REAR INNER PANELS AND BOTTOM PLATES**
- 030 POSITION THE FIRST CABINET**
- 040 APPLY SPONGE RUBBER**
- 050 SILICONE THE SIDE THE SIDE TO BE MULTIPLEXED**
- 060 BRING THE CABINET TO BE MULTIPLEXED NEAR THE FIRST CABINET**
- 070 SECURE THE CABINETS TO ONE ANOTHER**
- 080 INSTALL SUPERSTRUCTURE JOINT COVERS**
- 090 MOUNT THE HANDRAILS**
- 100 REASSEMBLE THE CABINETS**
- 110 INSTALL BASE PLINTHS**
- 120 SECURE BOTTOM PLATES**

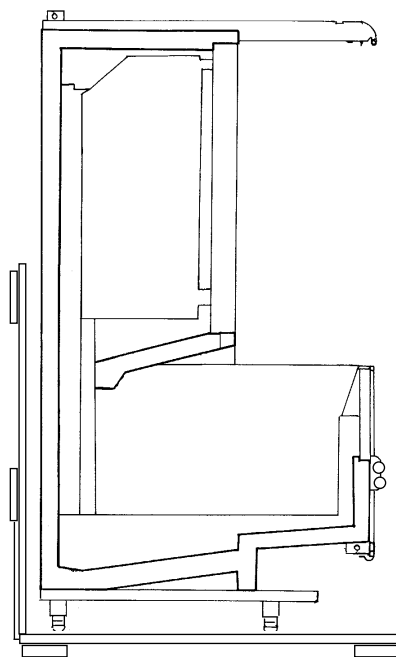
ATTENTION!

**ALL MULTIPLEXING AND COMPLETING STEPS, AS WELL AS ALL
MAINTENANCE OPERATIONS MUST BE CARRIED OUT WHILE WEAR-
RING PADDED HEAVY-DUTY GLOVES.**

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 2/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

010 UNPACK THE CABINETS

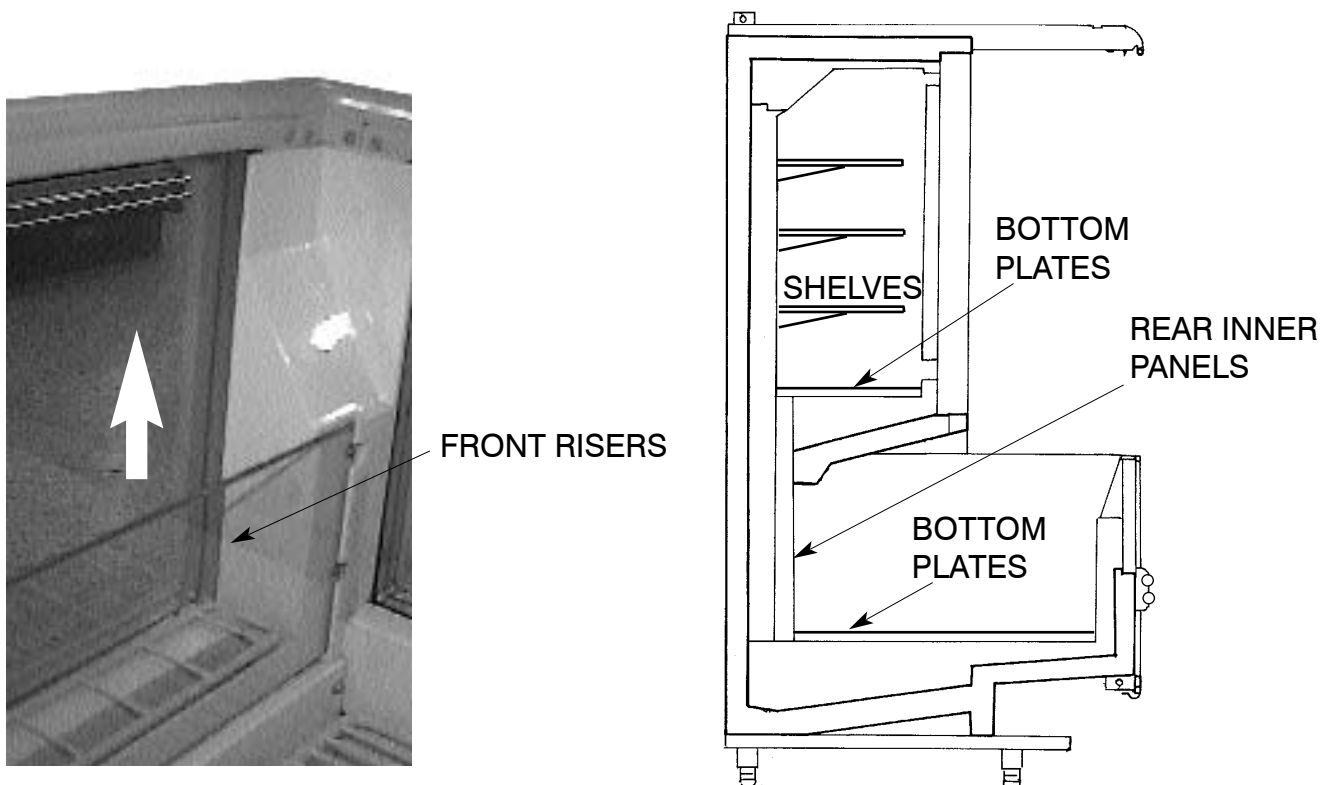
Unpack the cabinets with care in order to prevent scratching or denting them.



020 REMOVE FRONT RISERS, REAR INNER PANELS AND BOTTOM PLATES

Withdraw the front risers on the side to be multiplexed.

Remove rear inner panels and bottom plates from the chest side to be multiplexed. Again, on the multiplexing side, remove superstructure shelves.



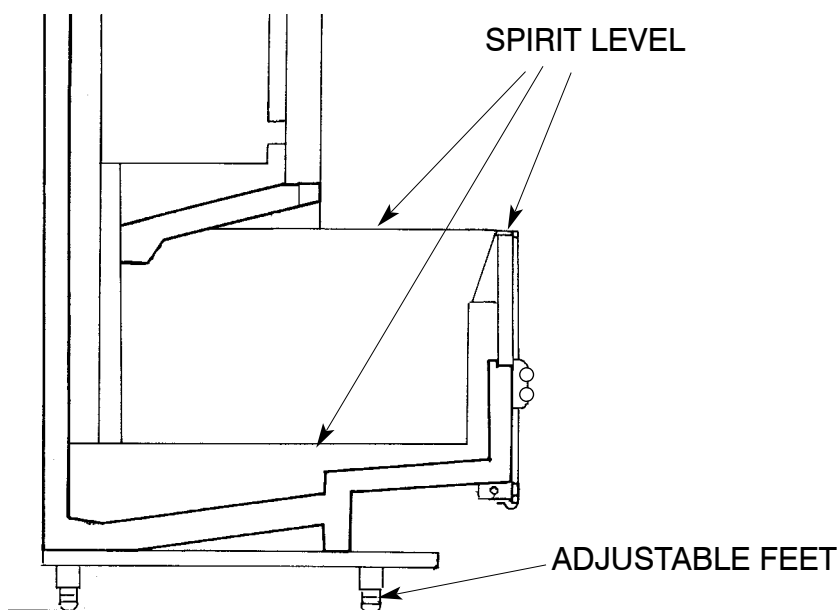
COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 3/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

030 POSITION THE FIRST CABINET

Bring the cabinet wherever this is to be installed.

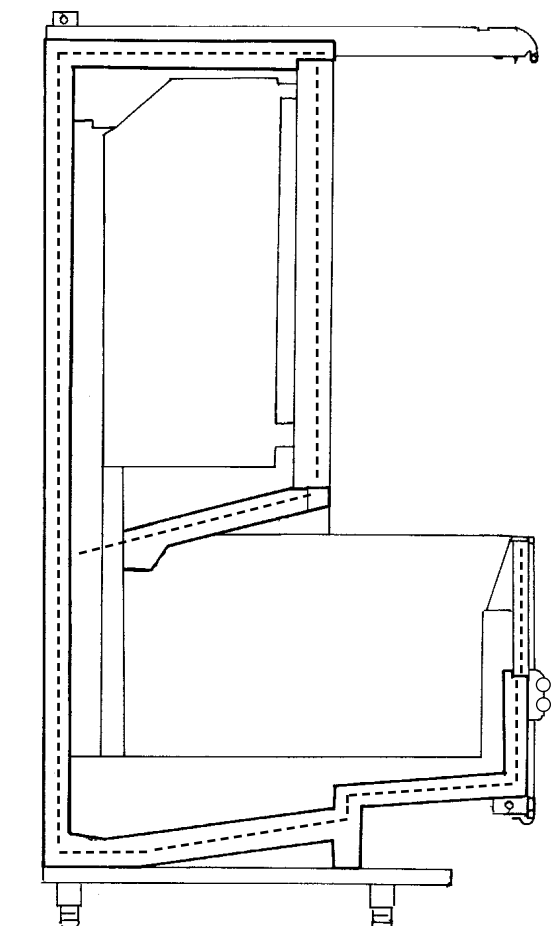
Control its alignment both lengthwise and crosswise with reference to a spirit level laid on the cabinet handrail and longitudinal elements.

Level the cabinet by applying a cylinder-section tool to the feet ($\varnothing = 8 \text{ mm}$).



040 APPLY SPONGE RUBBER

Apply sponge rubber on the side of one of the cabinets to be multiplexed, as shown in the figure.



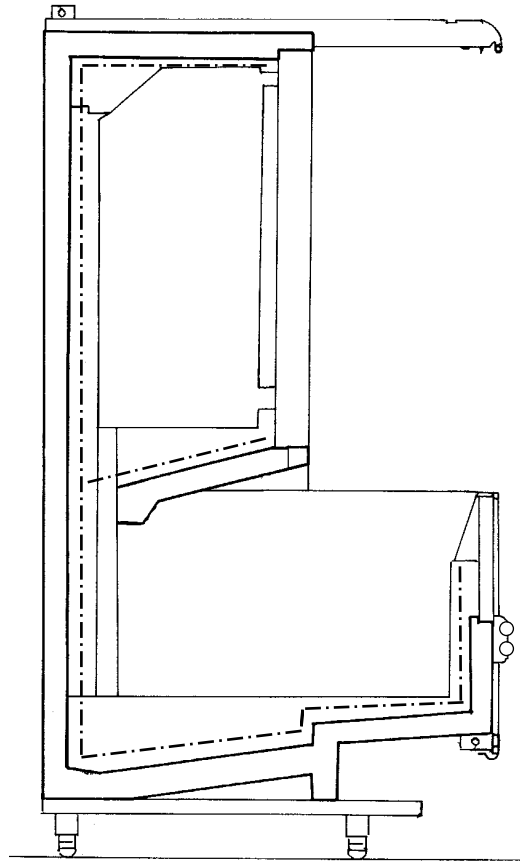
SPONGE RUBBER

COSTAN [®] TECHNICAL DOCUMENTATION	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 4/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	C			F				

050 SILICONE THE SIDE TO BE MULTIPLEXED

Apply a uniform silicone seam of approximately 5 mm as shown in the figure.

SILICONE

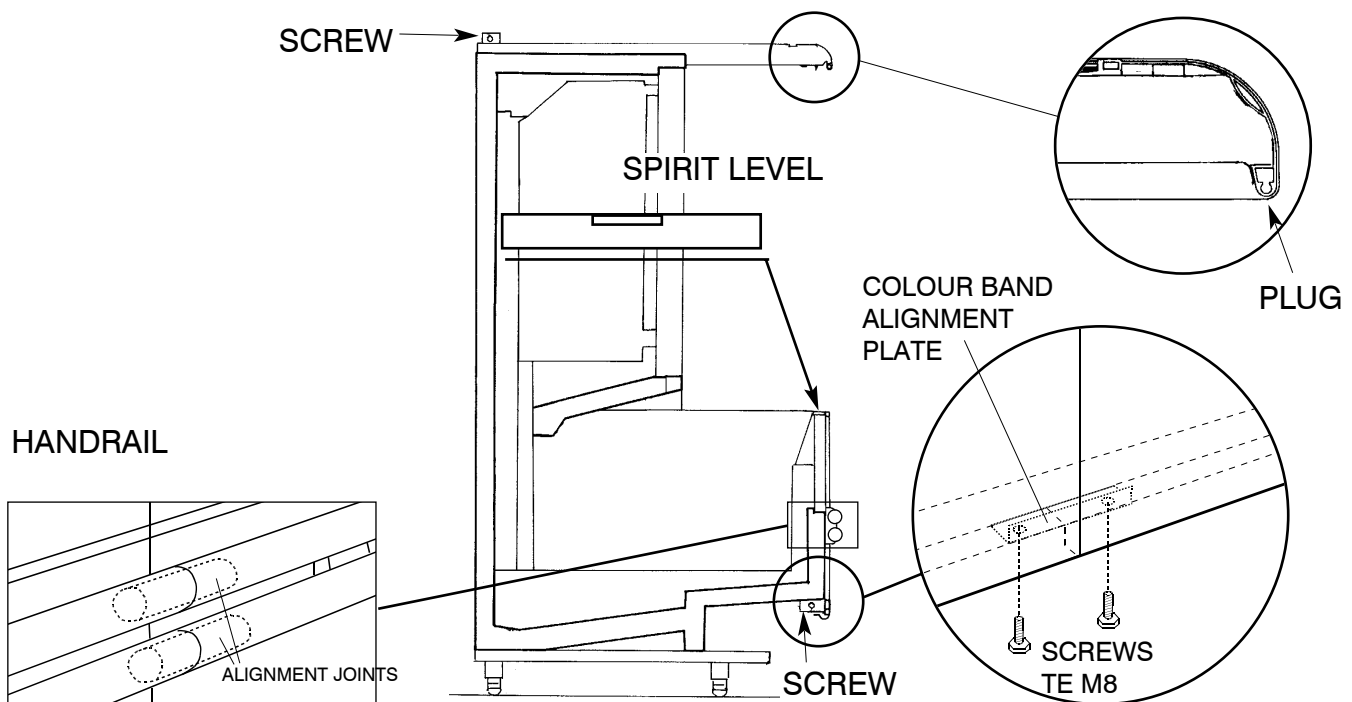



060 BRING THE CABINET TO BE MULTIPLEXED NEAR THE FIRST CABINET

Insert the plug for canopy alignment.

Bring the cabinets against each other and secure them in the points shown in the figure using screws TE M8x40 and M8 washers and nuts. Check cabinet levelness with reference to the handrails and longitudinal elements and align using the adjustable feet.

Align colour bands and fasten the ad-hoc plates with screws (see figure). Insert the pvc joint cover in between glazing panes. Align bumper rails by the aid of the specific plastic joints.

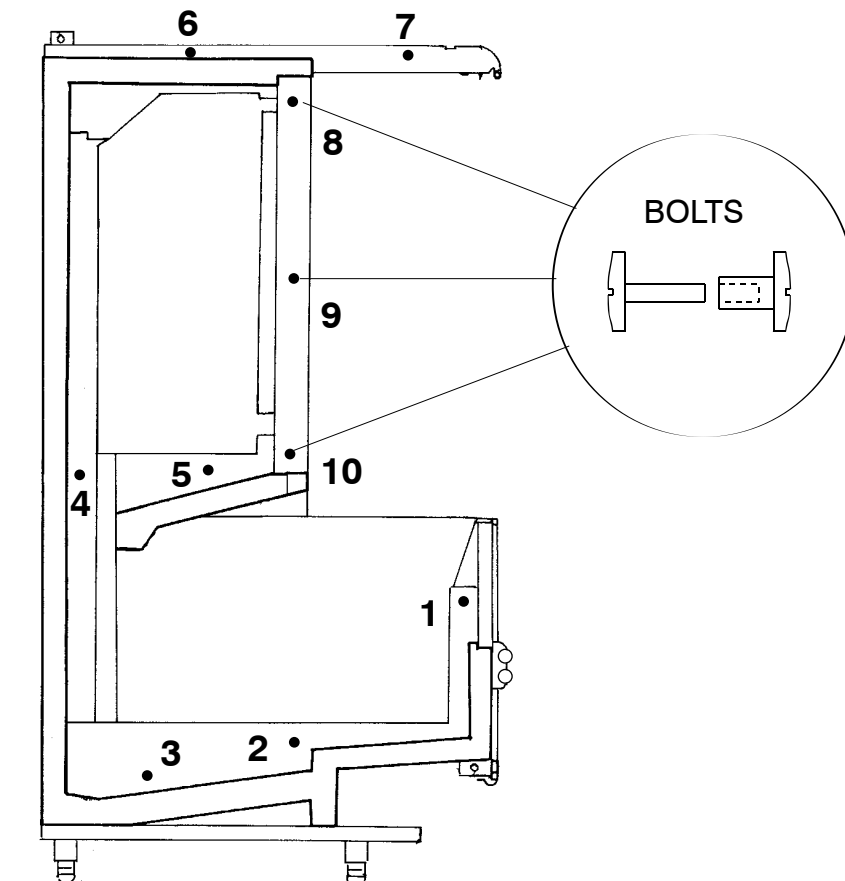


COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL PAGE: 5/7 DATE of 1 st ISSUE: 26.Jan.2005 ISSUED BY: MARKETING
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER	
	A			D			
	B			E			
	C			F			

070 SECURE THE CABINETS TO ONE ANOTHER

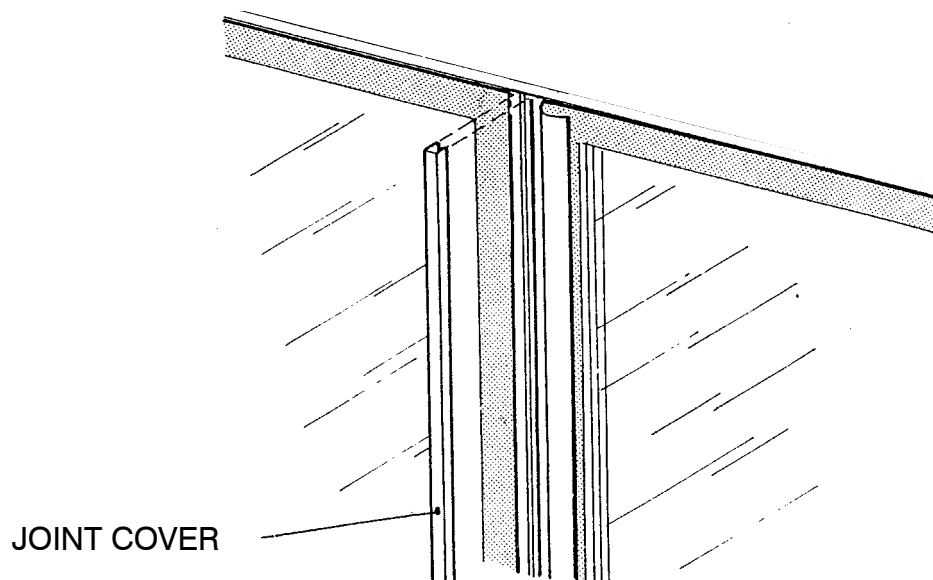
Secure the cabinets to each other in the points corresponding to positions 1-2-3-4-5-6-7 by the use of screws TE M8x30 and their M8 nuts. Then fasten them in points 8-9-10 using M5 chromium-plated bolts.

ATTENTION: Fastening points 2-3-4-5 require a washer of diameter 8.4x24



080 INSTALL SUPERSTRUCTURE JOINT COVERS

Fasten the joint cover to the splice between the superstructures using silicone.



COSTAN [®] TECHNICAL DOCUMENTATION	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 6/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	C			F				

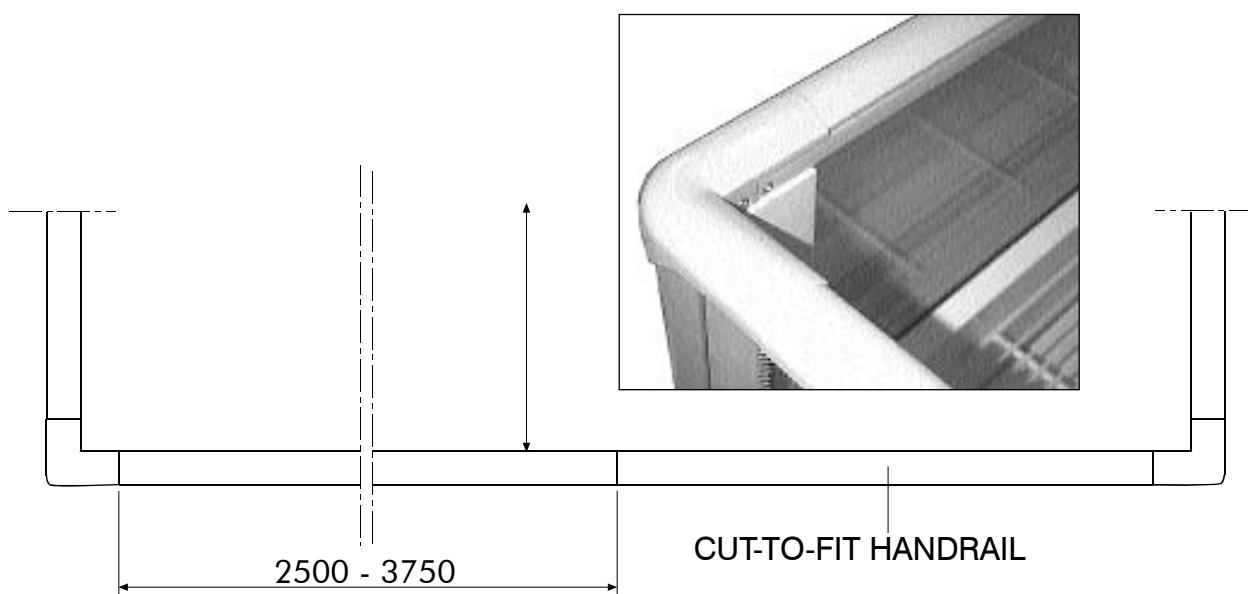
090 MOUNT THE HANDRAIL

Side handrails and corner pieces are factory-assembled.

For perfect alignment of front handrails on multiplexed cabinets, handrail portions suiting the effective cabinet length are supplied (2500 or 3750 mm).

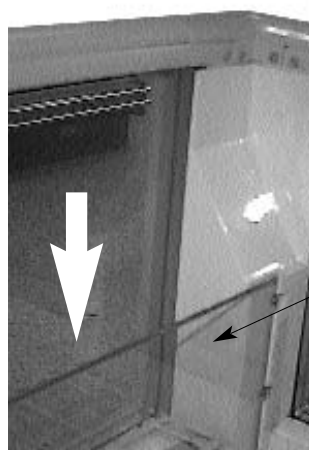
Place the first handrail on its profile, flush to one of the corner pieces and then all the others but the last.

Measure the remaining length, cut the last handrail to fit and install it on the relevant profiles.

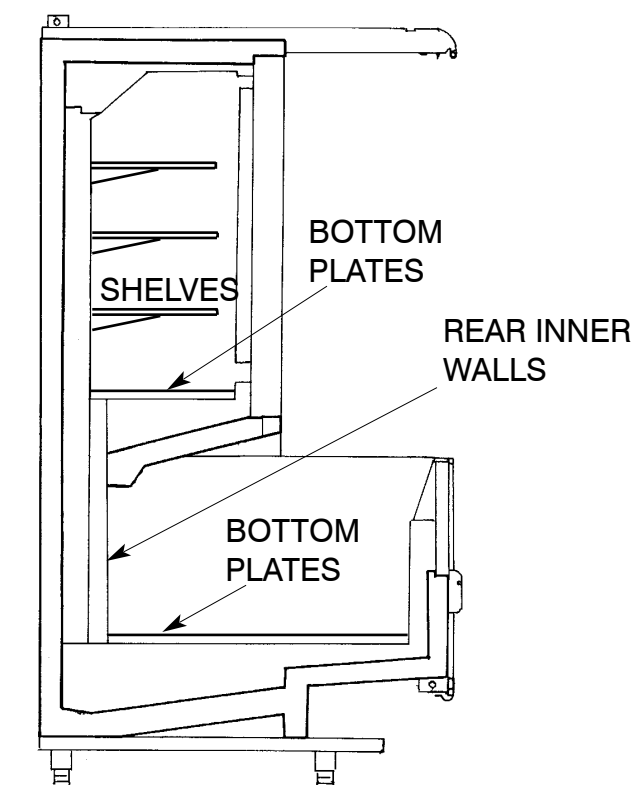


100 REASSEMBLE THE CABINET

Put front risers, bottom plates, rear inner walls and superstructure shelves back in place by reversing the disassembling steps.



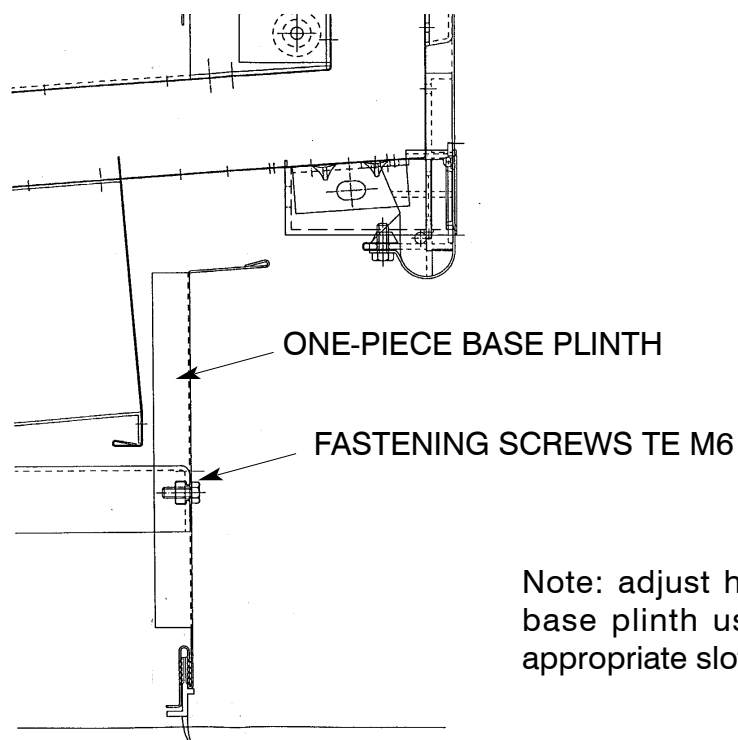
FRONT RISERS



COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 040 CHAPTER: MULTIPLEXING AND COMPLETING LINEAR CASES	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 7/7
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

110 INSTALL BASE PLINTHS

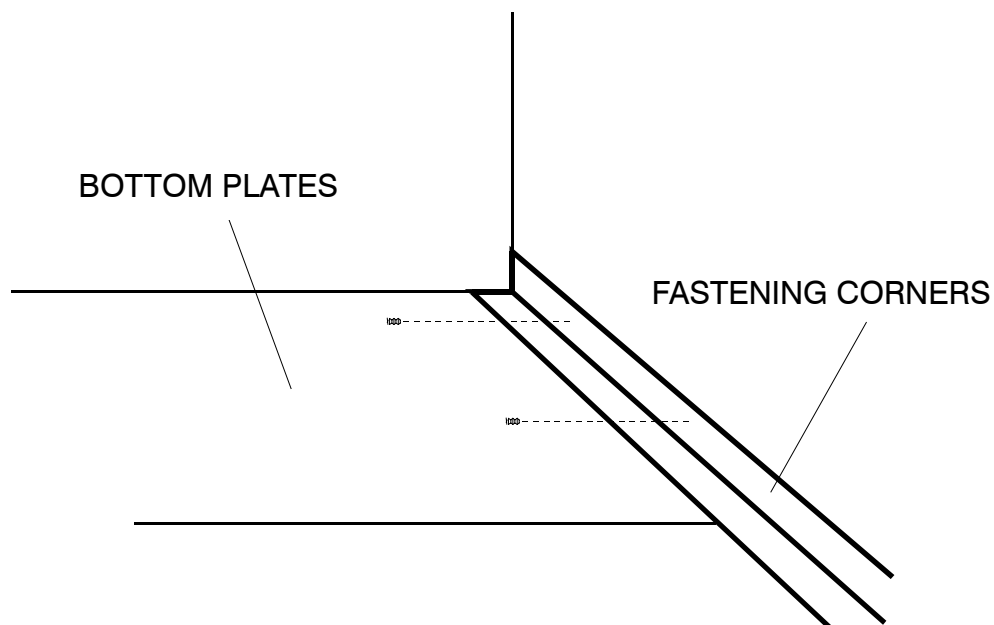
Fasten base plinths to the front and sides, as shown in the figure below.



Note: adjust height of base plinth using the appropriate slots.

120 FASTEN BOTTOM PLATES

Fasten cabinet bottom plates by the aid of the appropriate fastening corners and self threading screws.



COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 050.10 CHAPTER: ELECTRICAL AND REFRIGERATING CONTROLS AND SETTINGS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 2
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

ELECTRICAL AND REFRIGERATING CONTROLS AND SETTINGS

CRES / TDF SPECIFICA DI TARATURA / CONTROLLER SET POINTS

Riferita alla classe climatica 3 secondo EN 441 / They are referred to climate class 3 in accordance with EN441

NUMERO / NUMBER : RS82018C

DATA / DATE : 30/03/1998

AGGIORNAMENTO / REVISION : 01- 1/12/99 Invertito UT con OT(Alarm)/02-28/01/00

Aggiunto taratura switch

TIPO DI MOBILE / CABINET TYPE: WHALE/LEOPARD/BASE MIURA/ BT / “ UK “

CONTROLORE / CONTROLLER : ELM

PARAMETRI / PARAMETERS

VALORI IMPOSTATI / SET POINT

SET POINT / CUT IN TEMP.	-30°C
DIFFERENTIAL	3
CONTROL WEIGHT	50%
OT ALARM	-16°C
UT ALARM	-35°C
ALARM DELAY	25 min.
DEFROST START	00.00
DEFROSTS per DAY	4
NO DEFROST TIME	7
GAS DEFROST DETECT	+18°C
DEFROST TERM TEMP	+5°C
DEFROST MIN TIME	10 min.
DEFROST MAX TIME	45 min.
DRAIN DOWN TIME	2 min.
RECOVERY TIME	35 min.
DEFROST TYPE 0=Elect. 1=Gas	-
DEFROST MODE 0=Local 1=Remote	0
DEFROST HOLD 0=Off 1=On	0
FAN DEFROST 0=Off 1=On	1

SWITCHS 5,6,7	ON
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COSTAN Refrigerazione / Refrigeration	Rif./Ref.	Modifica/Modificat.	Data/Date: 30/03/98
Descrizione / Description:	01	Invertito UT con OT	Firma/Sigmat.
WHALE/LEOPARD/MIURA BASE/ BT / “ UK “	02	Aggiunto tarat.switch	
			Codice/Code
			RS82018C

CRES / TDF SPECIFICA DI TARATURA / CONTROLLER SET POINTS

Riferita alla classe climatica 3 secondo EN 441 / They are referred to climate class 3 in accordance with EN441

NUMERO / NUMBER : RS82019C

DATA / DATE : 30/03/1998

AGGIORNAMENTO / REVISION : 01- 1/12/99 Invertito UT con OT(Alarm)/02-Aggiunto tarature switch

TIPO DI MOBILE / CABINET TYPE:ALZATA-TOP MIURA “ UK “

CONTROLORE / CONTROLLER : ELM

PARAMETRI / PARAMETERS

VALORI IMPOSTATI / SET POINT

SET POINT / CUT IN TEMP.	-30°C
DIFFERENTIAL	3
CONTROL WEIGHT	50%
OT ALARM	-16°C
UT ALARM	-35°C
ALARM DELAY	25 min.
DEFROST START	00.00
DEFROSTS per DAY	4
NO DEFROST TIME	7
GAS DEFROST DETECT	+18°C
DEFROST TERM TEMP	+5°C
DEFROST MIN TIME	10 min.
DEFROST MAX TIME	45 min.
DRAIN DOWN TIME	2 min.
RECOVERY TIME	35 min.
DEFROST TYPE 0=Elect. 1=Gas	-
DEFROST MODE 0=Local 1=Remote	0
DEFROST HOLD 0=Off 1=On	0
FAN DEFROST 0=Off 1=On	0

SWIYCH5,6,7	ON
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COSTAN Refrigerazione / Refrigeration	Rif./Ref.	Modifica/Modificat.	Data/Date: 30/03/98
Descrizione / Description:	01	Invertito UT con OT	Firma/Sigmat.
ALZATA-TOP MIURA “ UK “	02	Agg.tarature switch	
			Codice/Code
			RS82019C

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 050.20 CHAPTER: ELECTRICAL DETAILS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL PAGE: 1/2 DATE of 1 st ISSUE: 26.Jan.2005 ISSUED BY: MARKETING
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER	
	A			D			
	B			E			
	C			F			

ELECTRICAL DETAILS OF COMPONENTS MIURA BASE AND SUPERSTRUCTURE h=2000 - class L

MIURA BASE CLASS L - Electrical input 230V/50Hz

ELECTRICAL INPUT (Watt) MIURA BASE	2500	3750
	electric defrost	electric defrost
Evaporator fans	54	72
Front lights	80	120
Drain defrost heating elements	-	-
Drip-tray defrost heating elements	400	600
Evaporator defrost heating elements	2000	3000
Air-inlet defrost heating element	400	600
Demist heating element of bottom panel	225	330
Glazing demist heating element	45.9	64.75

MIURA SUPERSTRUCTURE h = 2000 CLASS L - Electrical input 230V/50Hz

COMPONENTS	2500	3750
	W	W
Evaporator fans	72	108
Demist heat. elem. of roof panels	180	270
Demist heat. elem. of doors and frame	652	970
Evaporator defrost heating element	500	750
Evaporator defrost heating element	500	750
Rear evap. defrost heating element	270	400
Drip-tray defrost heating element	270	400
Drain defrost heating element	46	46
Canopy lights	80	120
Lights of door uprights	280	420

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 050.20 CHAPTER: ELECTRICAL DETAILS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 2/2
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE OF 1st ISSUE: 11.15.1999
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

ELECTRICAL DETAILS OF COMPONENTS MIURA BASE AND SUPERSTRUCTURE h=2200 class L

MIURA BASE CLASS L - Electrical input 230V/50Hz

ELECTRICAL INPUT (Watt) MIURA BASE	2500	3750
	electric defrost	electric defrost
Evaporator fans	54	72
Front lights	80	120
Drain defrost heating elements	-	-
Drip-tray defrost heating elements	400	600
Evaporator defrost heating elements	2000	3000
Air-inlet defrost heating element	400	600
Demist heating element of bottom panel	225	330
Glazing demist heating element	45.9	64.75

MIURA SUPESTRUCTURE h=2200 ref. L - Electrical input

COMPONENT	2500	3750
	W	W
Evaporator fans	72	108
Demist heat. elem. of roof panels	180	270
Demist heat. elem. of doors and frames	722	1094
Evaporator defrost heating element	500	750
Evaporator defrost heating element	500	750
Evaporator defrost heating element	270	400
Drip-tray defrost heating element	270	400
Drain defrost heating element	46	46
Canopy lights	80	120
Lights of door uprights	280	420

COSTAN TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 050.30 CHAPTER: REFRIGERATING CAPACITY REQUIREMENT	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGE: 1/1
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 26.Jan.2005
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

REFRIGERATING CAPACITY REQUIREMENT

REQUIRED REFRIGERATING CAPACITY (Q0) - Watt -			Evaporating temperature (T0)	LENGTHS			
				2500		3750	
				BASE	SUPER.	BASE	SUPER.
MIURA BT h = 2000/2200	CLASS 3	STAND-ALONE	- 36 °C	1000	1300	1500	2000
	CLASS 3	MULTIPLEXED	- 36 °C	950	1250	1400	1900

Applicable correction factors: for different ambient cond. climatic class 1 Famb = 0.8
climatic class 2 Famb = 0.95
climatic class 3 Famb = 1.0
climatic class 4 Famb = 1.2

Calculation of design evaporating temperature according to actual load:

$$Q_{eff} = Q_0 \times F_{amb}$$

$$T_{ef} = T_0 + (1 - Q_{eff}/Q_0) \times 10 \text{ °C}$$

Q_{eff} and T_{ef} being values to be considered for calculation purposes

(Q_{eff}= actual load; T_{ef}= actual temperature)

COSTAN ® TECHNICAL DOCUMENTATION PRODUCT: MIURA ICELAND DOC. no. QSM000215E CHAPTER no. 050.40 CHAPTER: WIRING DIAGRAMS	CHAPTER REVISION STATUS						IN CONFORMITY WITH APPROVED ORIGINAL	PAGES: 3
	ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER		DATE of 1 st ISSUE: 24.06.04
	A			D				ISSUED BY: MARKETING
	B			E				
	C			F				

WIRING DIAGRAMS
