

ECA

N° IN 0011500.a

Nouveau
New
Neu



**NOTICE TECHNIQUE
D'INSTALLATION**

**INSTALLATION
INSTRUCTIONS**

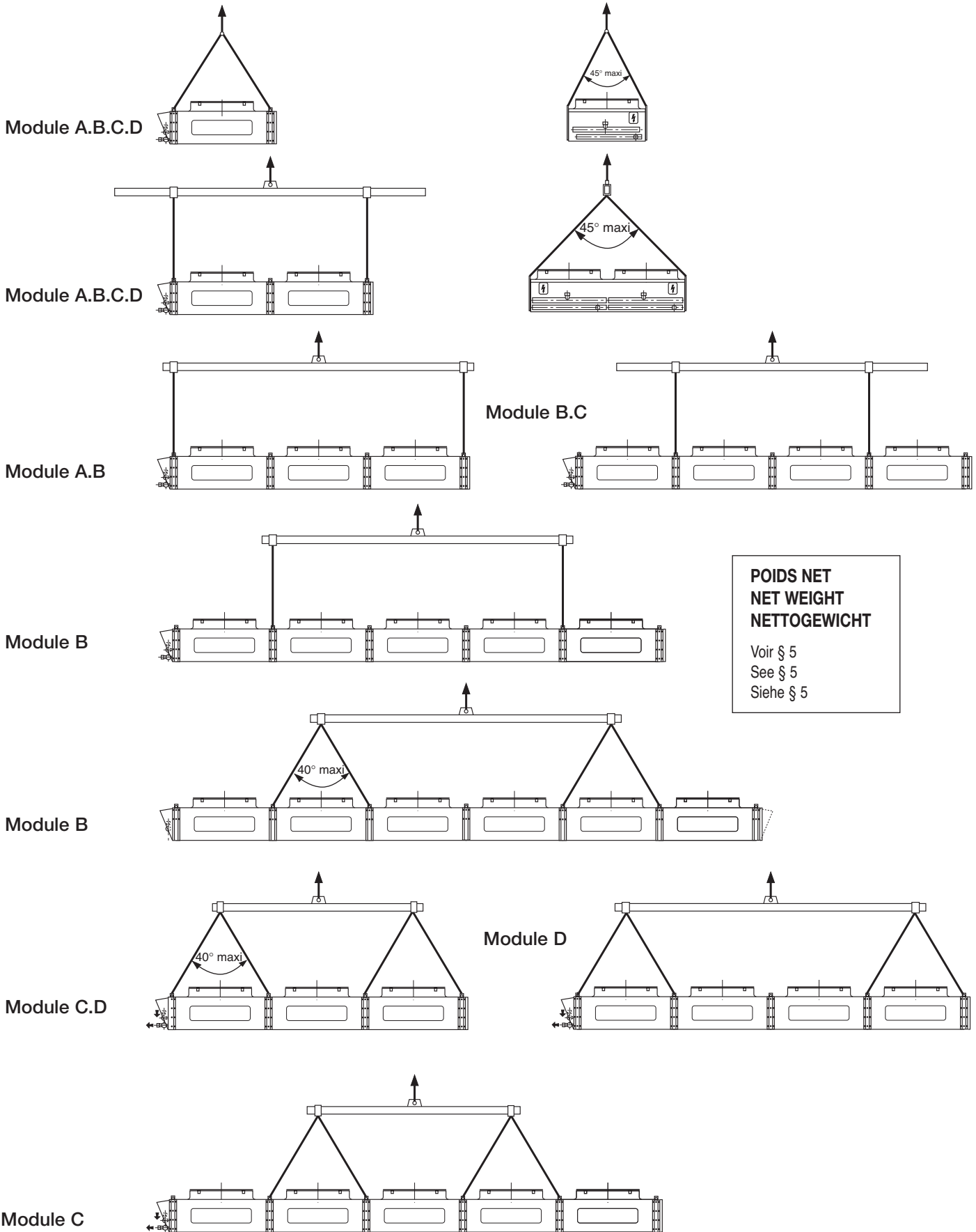
INSTALLATIONSNOTIZ

HK[®]
REFRIGERATION

FRIGA-BOHN

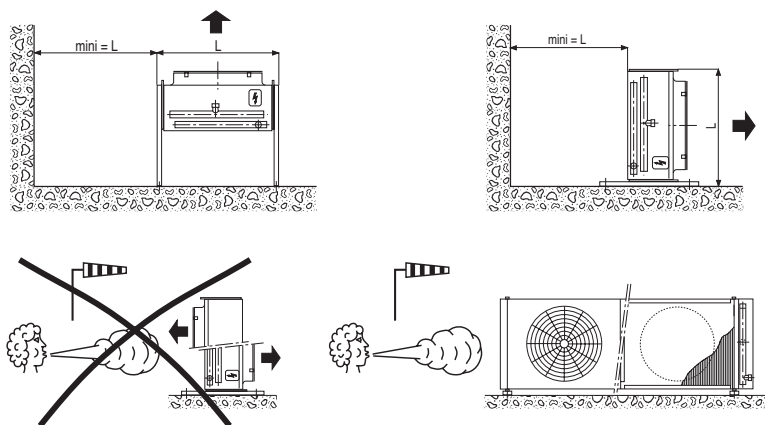


1. POINTS DE MANUTENTION LIFTING LOCATIONS - AUFHÄNGUNGSPUNKTE



2. CONSEILS D'IMPLANTATION

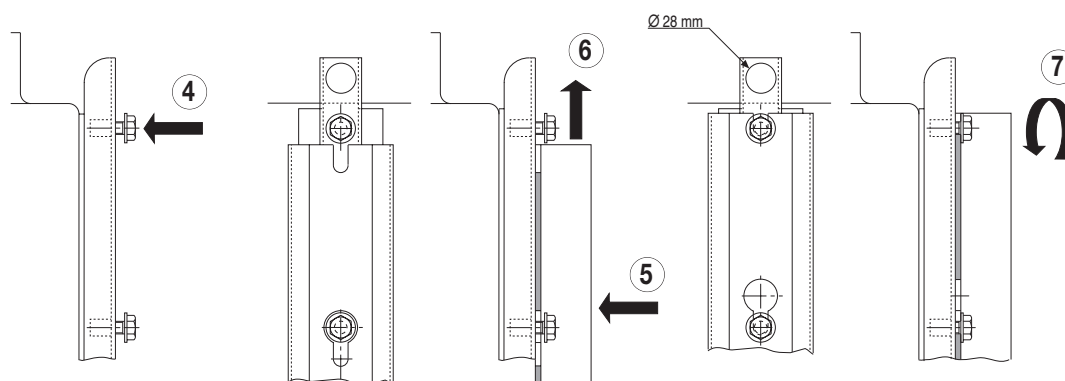
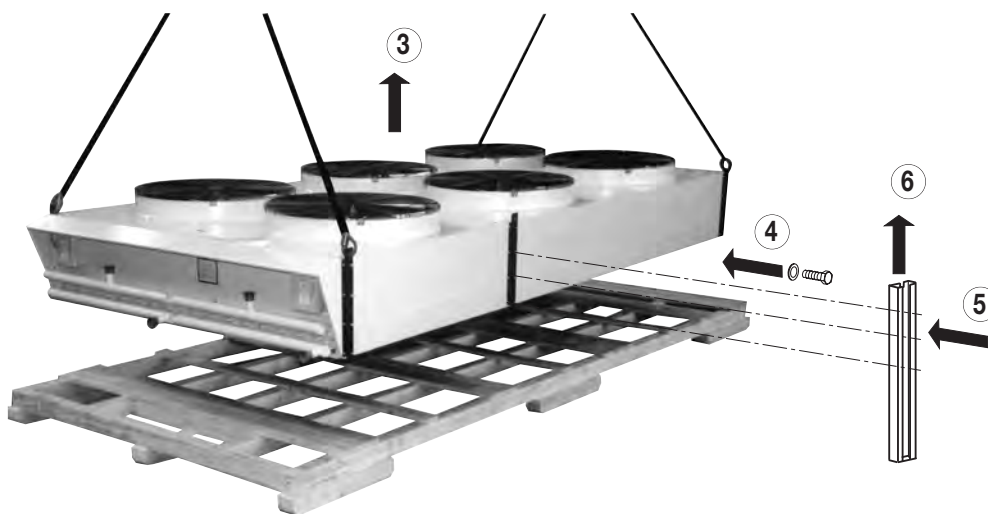
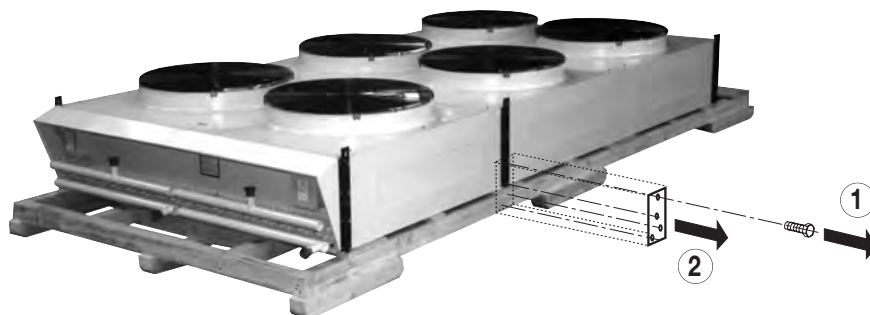
LAY OUT CONSIDERATIONS - AUFSTELLUNGSEMPFEHLUNGEN



3. AIR VERTICAL - VERTICAL AIR FLOW - VERTIKAL LUFT

3.1 MONTAGE DES PIEDS - LEG MOUNTING - FUSSMONTAGE

① → ② → ③ → ④ → ⑤ → ⑥ → ⑦



3.2 EMPLACEMENT DES POINTS DE FIXATION FITTING POINT LOCATIONS BEFESTIGUNGSPUNKTE

F AIR VERTICAL

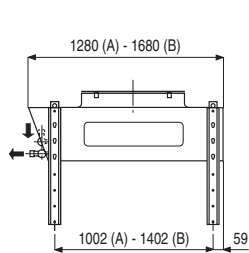
GB VERTICAL AIR FLOW

D LUFT VERTIKAL

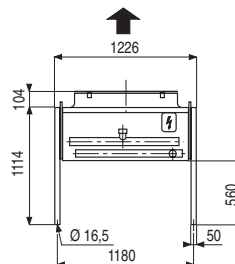
F TYPE DE MODULE : A & B

GB TYPE OF MODULE : A & B

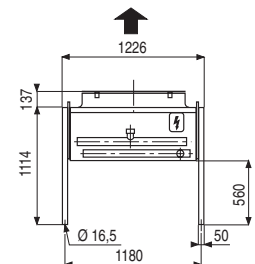
GB MODULTYP : A & B



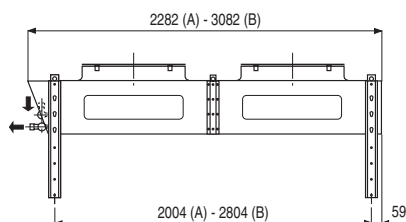
(A) ECA ... L01 A...
(B) ECA ... L01 B... / ECA ... P02 B...



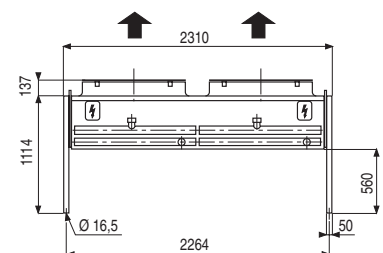
ECA ... L... A...



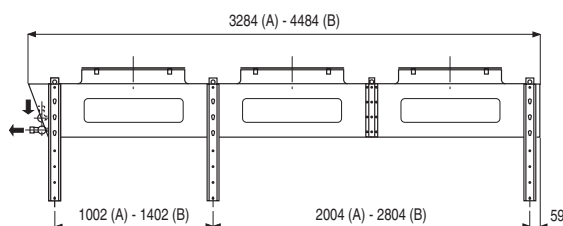
ECA ... L... B...



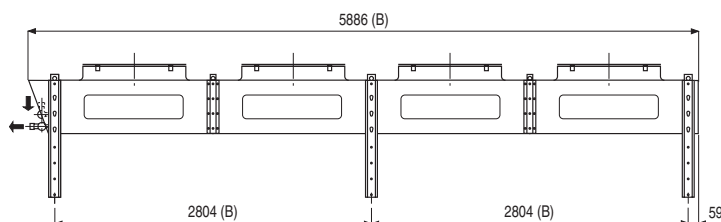
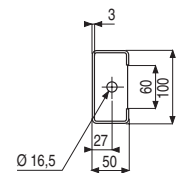
(A) ECA ... L02 A...
(B) ECA ... L02 B... / ECA ... P04 B...



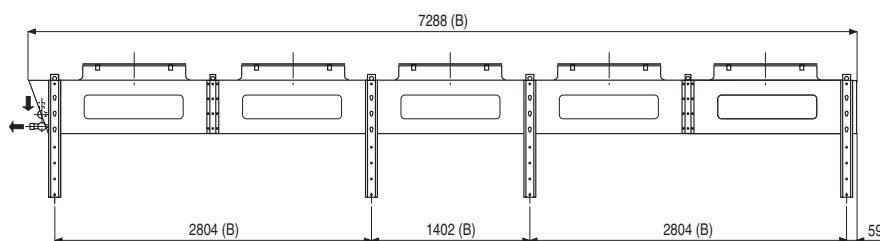
ECA ... P... B...



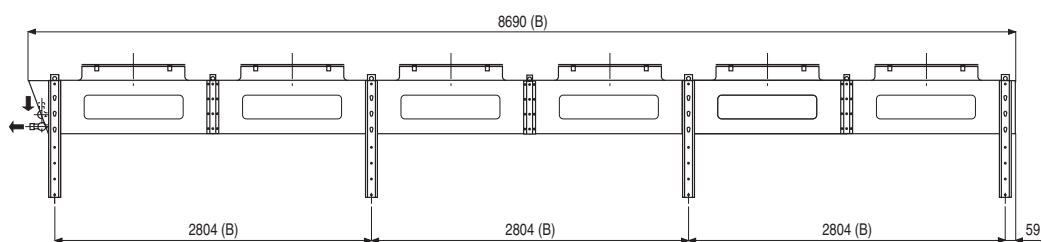
(A) ECA ... L03 A...
(B) ECA ... L03 B... / ECA ... P06 B...



(B) ECA ... L04 B... / ECA ... P08 B...



(B) ECA ... L05 B... / ECA ... P10 B...



(B) ECA ... L06 B... / ECA ... P12 B...

3.2 EMLACEMENT DES POINTS DE FIXATION FITTING POINT LOCATIONS BEFESTIGUNGSPUNKTE

F AIR VERTICAL

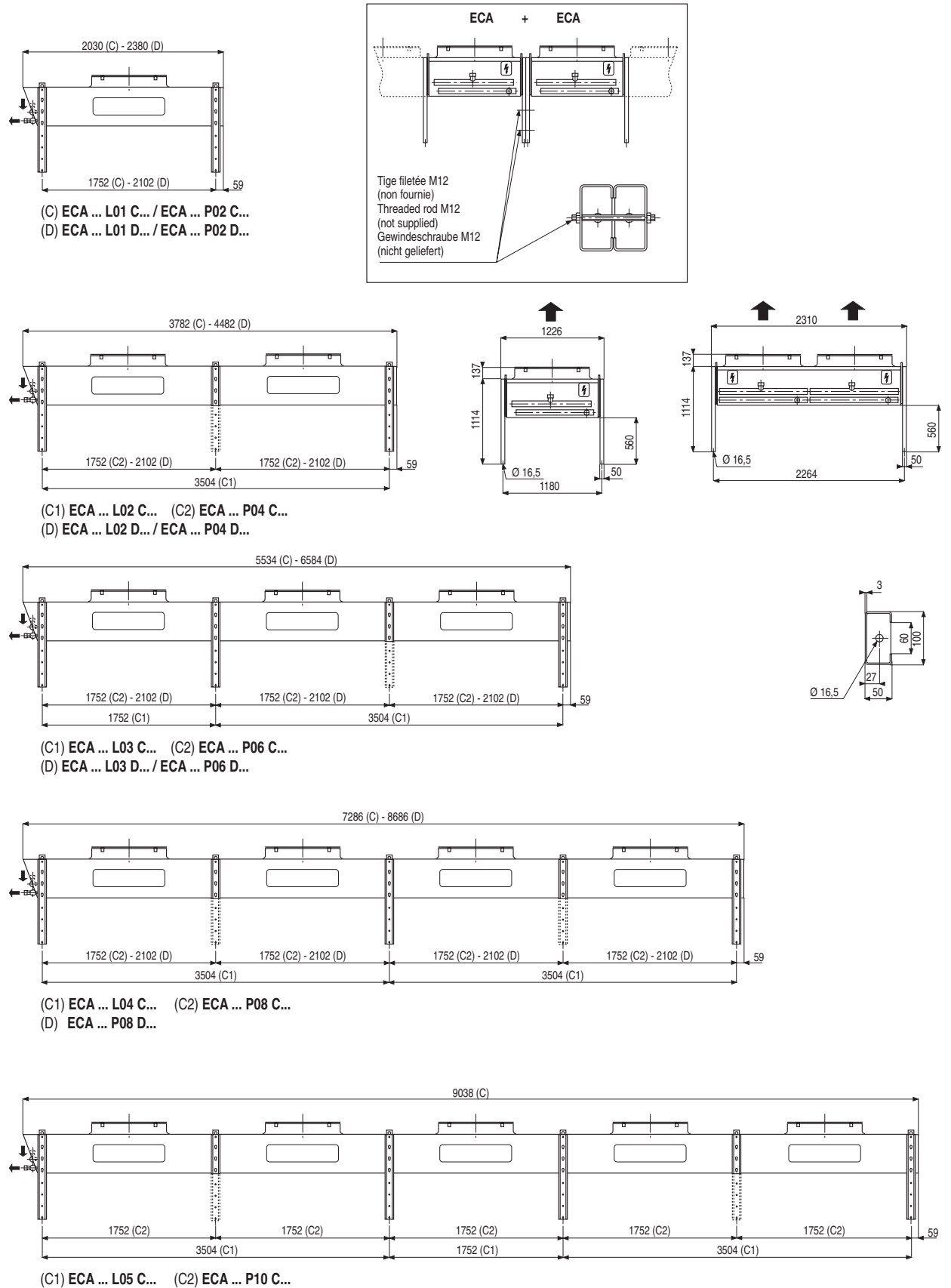
GB VERTICAL AIR FLOW

D LUFT VERTIKAL

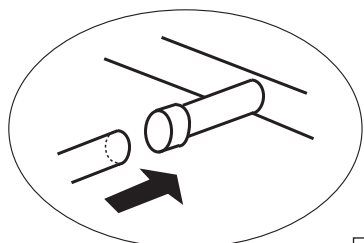
F TYPE DE MODULE : C & D

GB TYPE OF MODULE : C & D

GB MODULTYP : C & D



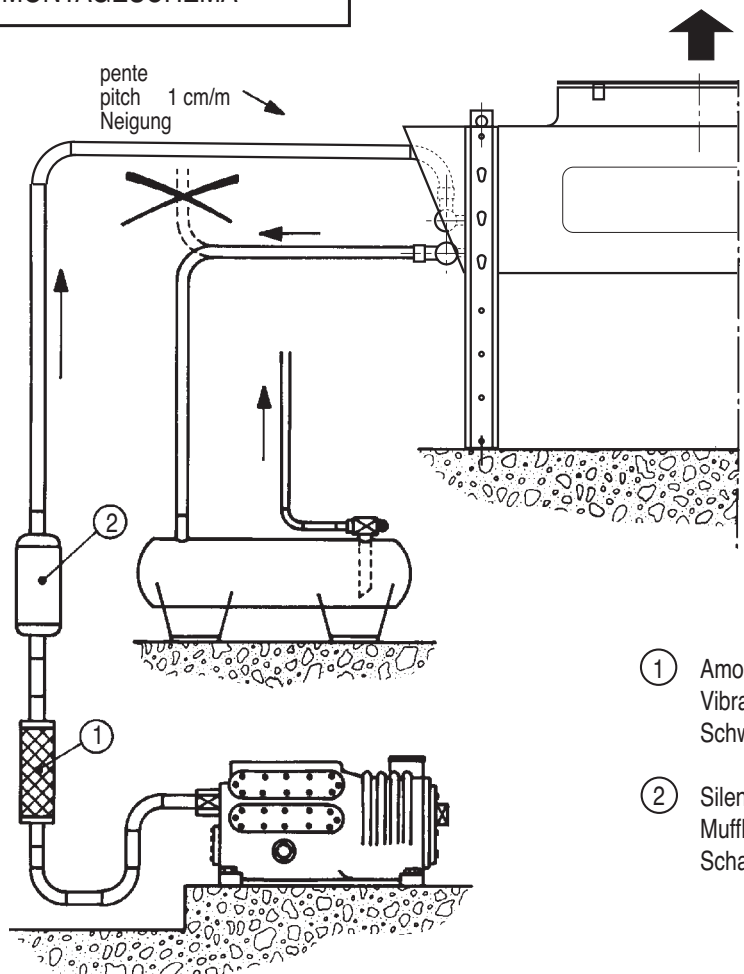
4. RACCORDEMENTS FRIGORIFIQUES REFRIGERANT CONNECTIONS - KÄLTEMITTELANSCHLÜSS



Voir § 5
See § 5
Siehe § 5



SCHEMA "TYPE" D'INSTALLATION
TYPICAL PIPING
MONTAGESCHEMA



- ① Amortisseur de vibrations
Vibration eliminator
Schwingungsdämpfer
- ② Silencieux de refoulement
Muffler
Schalldämpfer

ATTENTION ECA destinés à l'équipement de groupes de condensation : fixer les tuyauteries au châssis.
WARNING ECA used for the equipment of condensing units: secure the condenser pipes to the frame.
ACHTUNG Bei ECA, die zur Ausrüstung von Kondensationsaggregaten bestimmt sind: Leitungen am Gehäuse befestigen.

5. CARACTERISTIQUES TECHNIQUES TECHNICAL DATA - TECHNISCHE ANGABEN

ECA 06P. L... (ø 762 = 950tr/min - r.p.m.- U/min/ø 900 = 900 tr/min - r.p.m. -U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht	Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht		
		Nb No Anz	Entrée				Sortie	Nb No Anz		Entrée	Sortie
			Inlet Eintritt ø				Outlet Austritt ø			Inlet Eintritt ø	Outlet Austritt ø
ECA 06P 7L01 A1	1	7/8"	7/8"	165	ECA 06P 9L03 B1	3	1 3/8"	1 3/8"	481		
ECA 06P 7L01 A2	1	7/8"	7/8"	174	ECA 06P 9L02 C3	2	1 3/8"	1 3/8"	448		
ECA 06P 7L01 A3	1	7/8"	7/8"	183	ECA 06P 9L02 C4	2	1 3/8"	1 3/8"	480		
ECA 06P 7L01 A4	1	7/8"	7/8"	192	ECA 06P 9L02 D3	2	1 3/8"	1 3/8"	509		
ECA 06P 9L01 B1	1	7/8"	7/8"	193	ECA 06P 9L03 C1	3	1 3/8"	1 3/8"	557		
ECA 06P 9L01 C1	1	7/8"	7/8"	215	ECA 06P 9L03 B2	3	1 3/8"	1 3/8"	519		
ECA 06P 9L01 B2	1	7/8"	7/8"	206	ECA 06P 9L02 D4	2	1 3/8"	1 3/8"	546		
ECA 06P 9L01 D1	1	7/8"	7/8"	239	ECA 06P 9L03 B3	3	1 5/8"	1 5/8"	556		
ECA 06P 9L01 B3	1	7/8"	7/8"	218	ECA 06P 9L04 B1	4	1 5/8"	1 5/8"	620		
ECA 06P 9L01 C2	1	7/8"	7/8"	230	ECA 06P 9L03 C2	3	1 5/8"	1 5/8"	604		
ECA 06P 9L01 B4	1	7/8"	7/8"	231	ECA 06P 9L03 B4	3	1 5/8"	1 5/8"	594		
ECA 06P 7L02 A1	2	7/8"	7/8"	275	ECA 06P 9L03 C3	3	1 5/8"	1 5/8"	651		
ECA 06P 9L01 D2	1	1 1/8"	1 1/8"	257	ECA 06P 9L04 B2	4	1 5/8"	1 5/8"	670		
ECA 06P 9L01 C3	1	1 1/8"	1 1/8"	246	ECA 06P 9L03 C4	3	1 5/8"	1 5/8"	698		
ECA 06P 9L01 C4	1	1 1/8"	1 1/8"	261	ECA 06P 9L05 B1	5	1 5/8"	1 5/8"	770		
ECA 06P 9L01 D3	1	1 1/8"	1 1/8"	276	ECA 06P 9L04 B3	4	1 5/8"	1 5/8"	720		
ECA 06P 7L02 A2	2	1 1/8"	1 1/8"	293	ECA 06P 9L04 C2	4	2 1/8"	2 1/8"	791		
ECA 06P 9L01 D4	1	1 1/8"	1 1/8"	295	ECA 06P 9L04 B4	4	2 1/8"	2 1/8"	770		
ECA 06P 7L02 A3	2	1 1/8"	1 1/8"	311	ECA 06P 9L05 B2	5	2 1/8"	2 1/8"	832		
ECA 06P 9L02 B1	2	1 1/8"	1 1/8"	332	ECA 06P 9L04 C3	4	2 1/8"	2 1/8"	853		
ECA 06P 7L03 A1	3	1 1/8"	1 1/8"	397	ECA 06P 9L04 C4	4	2 1/8"	2 1/8"	916		
ECA 06P 9L02 C1	2	1 1/8"	1 1/8"	386	ECA 06P 9L05 B3	5	2 1/8"	2 1/8"	895		
ECA 06P 9L02 B2	2	1 1/8"	1 1/8"	357	ECA 06P 9L05 B4	5	2 1/8"	2 1/8"	957		
ECA 06P 7L03 A2	3	1 1/8"	1 1/8"	424	ECA 06P 9L05 C1	5	2 1/8"	2 1/8"	910		
ECA 06P 9L02 D1	2	1 3/8"	1 3/8"	434	ECA 06P 9L06 B1	6	2 1/8"	2 1/8"	930		
ECA 06P 9L02 B3	2	1 3/8"	1 3/8"	382	ECA 06P 9L05 C2	5	2 1/8"	2 1/8"	990		
ECA 06P 9L02 C2	2	1 3/8"	1 3/8"	417	ECA 06P 9L06 B2	6	2 1/8"	2 1/8"	1000		
ECA 06P 7L03 A3	3	1 3/8"	1 3/8"	450	ECA 06P 9L05 C3	5	2 1/8"	2 1/8"	1070		
ECA 06P 9L02 B4	2	1 3/8"	1 3/8"	407	ECA 06P 9L06 B3	6	2 1/8"	2 1/8"	1070		
ECA 06P 7L03 A4	3	1 3/8"	1 3/8"	477	ECA 06P 9L05 C4	5	2 1/8"	2 1/8"	1150		
ECA 06P 9L02 D2	2	1 3/8"	1 3/8"	471	ECA 06P 9L06 B4	6	2 1/8"	2 1/8"	1140		

(1) Ventilateurs - Fans - Ventilatoren: ø 762/900 mm - 400 V/3/50 Hz Δ : 2600 W max.-6A max (2)

ECA 06P. P... (ø 900 = 900tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht	Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht		
		Nb No Anz	Entrée				Sortie	Nb No Anz		Entrée	Sortie
			Inlet Eintritt ø				Outlet Austritt ø			Inlet Eintritt ø	Outlet Austritt ø
ECA 06P 9P02 B1	2	7/8"	7/8"	364	ECA 06P 9P06 B3	6	1 5/8"	1 5/8"	1025		
ECA 06P 9P02 C1	2	7/8"	7/8"	382	ECA 06P 9P08 B1	8	1 5/8"	1 5/8"	1125		
ECA 06P 9P02 B2	2	7/8"	7/8"	389	ECA 06P 9P06 C2	6	1 5/8"	1 5/8"	1054		
ECA 06P 9P02 D1	2	7/8"	7/8"	414	ECA 06P 9P06 B4	6	1 5/8"	1 5/8"	1100		
ECA 06P 9P02 B3	2	7/8"	7/8"	414	ECA 06P 9P06 C3	6	1 5/8"	1 5/8"	1147		
ECA 06P 9P02 C2	2	7/8"	7/8"	413	ECA 06P 9P08 B2	8	1 5/8"	1 5/8"	1224		
ECA 06P 9P02 B4	2	7/8"	7/8"	439	ECA 06P 9P06 C4	6	1 5/8"	1 5/8"	1241		
ECA 06P 9P02 D2	2	1 1/8"	1 1/8"	452	ECA 06P 9P10 B1	10	1 5/8"	1 5/8"	1385		
ECA 06P 9P02 C3	2	1 1/8"	1 1/8"	444	ECA 06P 9P08 D1	8	1 5/8"	1 5/8"	1324		
ECA 06P 9P02 C4	2	1 1/8"	1 1/8"	475	ECA 06P 9P08 B3	8	1 5/8"	1 5/8"	1324		
ECA 06P 9P02 D3	2	1 1/8"	1 1/8"	489	ECA 06P 9P08 C2	8	2 1/8"	2 1/8"	1374		
ECA 06P 9P02 D4	2	1 1/8"	1 1/8"	527	ECA 06P 9P08 B4	8	2 1/8"	2 1/8"	1424		
ECA 06P 9P04 B1	4	1 1/8"	1 1/8"	614	ECA 06P 9P10 C1	10	2 1/8"	2 1/8"	1539		
ECA 06P 9P04 C1	4	1 1/8"	1 1/8"	671	ECA 06P 9P10 B2	10	2 1/8"	2 1/8"	1510		
ECA 06P 9P04 B2	4	1 1/8"	1 1/8"	664	ECA 06P 9P08 D2	8	2 1/8"	2 1/8"	1474		
ECA 06P 9P04 D1	4	1 3/8"	1 3/8"	737	ECA 06P 9P12 B1	12	2 1/8"	2 1/8"	1635		
ECA 06P 9P04 B3	4	1 3/8"	1 3/8"	714	ECA 06P 9P08 C3	8	2 1/8"	2 1/8"	1499		
ECA 06P 9P04 C2	4	1 3/8"	1 3/8"	733	ECA 06P 9P08 C4	8	2 1/8"	2 1/8"	1624		
ECA 06P 9P04 B4	4	1 3/8"	1 3/8"	764	ECA 06P 9P08 D3	8	2 1/8"	2 1/8"	1624		
ECA 06P 9P04 D2	4	1 3/8"	1 3/8"	812	ECA 06P 9P10 B3	10	2 1/8"	2 1/8"	1635		
ECA 06P 9P06 B1	6	1 3/8"	1 3/8"	875	ECA 06P 9P10 C2	10	2 1/8"	2 1/8"	1694		
ECA 06P 9P04 C3	4	1 3/8"	1 3/8"	796	ECA 06P 9P10 B4	10	2 1/8"	2 1/8"	1760		
ECA 06P 9P04 C4	4	1 3/8"	1 3/8"	858	ECA 06P 9P12 B2	12	2 1/8"	2 1/8"	1785		
ECA 06P 9P04 D3	4	1 3/8"	1 3/8"	887	ECA 06P 9P08 D4	8	2 1/8"	2 1/8"	1775		
ECA 06P 9P06 C1	6	1 3/8"	1 3/8"	960	ECA 06P 9P10 C3	10	2 1/8"	2 1/8"	1851		
ECA 06P 9P06 B2	6	1 3/8"	1 3/8"	950	ECA 06P 9P12 B3	12	2 1/8"	2 1/8"	1935		
ECA 06P 9P04 D4	4	1 3/8"	1 3/8"	962	ECA 06P 9P10 C4	10	2 1/8"	2 1/8"	2007		
					ECA 06P 9P12 B4	12	2 1/8"	2 1/8"	2085		

(1) Ventilateurs - Fans - Ventilatoren: ø 900 mm - 400 V/3/50 Hz
(2) Voir page 18, § 8. See page 18, § 8. Siehe Seite 18, § 8.

Δ : 2600 W max.- 6A max (2)

ECA 08P. L... (ø 762 = 720tr/min - r.p.m.- U/min/ø 900 = 700 tr/min - r.p.m. -U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg	Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg
	Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø			Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø	
ECA 08P 7L01 A1	1		7/8"	7/8"	165	ECA 08P 9L02 D2	2	1"3/8	1"3/8	471	
ECA 08P 7L01 A2	1		7/8"	7/8"	174	ECA 08P 9L03 B1	3	1"3/8	1"3/8	481	
ECA 08P 7L01 A3	1		7/8"	7/8"	183	ECA 08P 9L02 C4	2	1"3/8	1"3/8	480	
ECA 08P 7L01 A4	1		7/8"	7/8"	192	ECA 08P 9L02 D3	2	1"3/8	1"3/8	509	
ECA 08P 9L01 B1	1		7/8"	7/8"	193	ECA 08P 9L02 D4	2	1"3/8	1"3/8	546	
ECA 08P 9L01 C1	1		7/8"	7/8"	215	ECA 08P 9L03 C1	3	1"3/8	1"3/8	557	
ECA 08P 9L01 B2	1		7/8"	7/8"	206	ECA 08P 9L03 B2	3	1"3/8	1"3/8	519	
ECA 08P 9L01 B3	1		7/8"	7/8"	218	ECA 08P 9L03 B3	3	1"5/8	1"5/8	556	
ECA 08P 9L01 D1	1		7/8"	7/8"	239	ECA 08P 9L03 B4	3	1"5/8	1"5/8	594	
ECA 08P 9L01 B4	1		7/8"	7/8"	231	ECA 08P 9L03 C2	3	1"5/8	1"5/8	604	
ECA 08P 9L01 C2	1		7/8"	7/8"	230	ECA 08P 9L04 B1	4	1"5/8	1"5/8	620	
ECA 08P 7L02 A1	2		7/8"	7/8"	275	ECA 08P 9L03 C3	3	1"5/8	1"5/8	651	
ECA 08P 9L01 C3	1		1"1/8	1"1/8	246	ECA 08P 9L03 C4	3	1"5/8	1"5/8	698	
ECA 08P 9L01 D2	1		1"1/8	1"1/8	257	ECA 08P 9L04 B2	4	1"5/8	1"5/8	670	
ECA 08P 9L01 C4	1		1"1/8	1"1/8	261	ECA 08P 9L05 B1	5	1"5/8	1"5/8	770	
ECA 08P 9L01 D3	1		1"1/8	1"1/8	276	ECA 08P 9L04 B3	4	1"5/8	1"5/8	720	
ECA 08P 7L02 A2	2		1"1/8	1"1/8	293	ECA 08P 9L04 B4	4	2"1/8	2"1/8	770	
ECA 08P 9L01 D4	1		1"1/8	1"1/8	295	ECA 08P 9L04 C2	4	2"1/8	2"1/8	791	
ECA 08P 7L02 A3	2		1"1/8	1"1/8	311	ECA 08P 9L05 B2	5	2"1/8	2"1/8	832	
ECA 08P 9L02 B1	2		1"1/8	1"1/8	332	ECA 08P 9L04 C3	4	2"1/8	2"1/8	853	
ECA 08P 7L03 A1	3		1"1/8	1"1/8	397	ECA 08P 9L04 C4	4	2"1/8	2"1/8	916	
ECA 08P 9L02 C1	2		1"1/8	1"1/8	386	ECA 08P 9L05 B3	5	2"1/8	2"1/8	895	
ECA 08P 9L02 B2	2		1"1/8	1"1/8	357	ECA 08P 9L05 B4	5	2"1/8	2"1/8	957	
ECA 08P 7L03 A2	3		1"1/8	1"1/8	424	ECA 08P 9L05 C1	5	2"1/8	2"1/8	910	
ECA 08P 9L02 B3	2		1"3/8	1"3/8	382	ECA 08P 9L06 B1	6	2"1/8	2"1/8	930	
ECA 08P 7L03 A3	3		1"3/8	1"3/8	450	ECA 08P 9L05 C2	5	2"1/8	2"1/8	990	
ECA 08P 9L02 D1	2		1"3/8	1"3/8	434	ECA 08P 9L06 B2	6	2"1/8	2"1/8	1000	
ECA 08P 7L03 A4	3		1"3/8	1"3/8	477	ECA 08P 9L05 C3	5	2"1/8	2"1/8	1070	
ECA 08P 9L02 B4	2		1"3/8	1"3/8	407	ECA 08P 9L05 C4	5	2"1/8	2"1/8	1150	
ECA 08P 9L02 C2	2		1"3/8	1"3/8	417	ECA 08P 9L06 B3	6	2"1/8	2"1/8	1070	
ECA 08P 9L02 C3	2		1"3/8	1"3/8	448	ECA 08P 9L06 B4	6	2"1/8	2"1/8	1140	

(1) Ventilateurs - Fans - Ventilatoren: ø 762/900 mm - 400 V/3/50 Hz Δ : 1350W max.- 4A max (2)

ECA 08P. P... (ø 900 = 700tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg	Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg
	Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø			Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø	
ECA 08P 9P02 B1	2		7/8"	7/8"	364	ECA 08P 9P06 B3	6	1"5/8	1"5/8	1025	
ECA 08P 9P02 C1	2		7/8"	7/8"	382	ECA 08P 9P06 B4	6	1"5/8	1"5/8	1100	
ECA 08P 9P02 B2	2		7/8"	7/8"	389	ECA 08P 9P06 C2	6	1"5/8	1"5/8	1054	
ECA 08P 9P02 B3	2		7/8"	7/8"	414	ECA 08P 9P08 B1	8	1"5/8	1"5/8	1125	
ECA 08P 9P02 D1	2		7/8"	7/8"	414	ECA 08P 9P06 C3	6	1"5/8	1"5/8	1147	
ECA 08P 9P02 B4	2		7/8"	7/8"	439	ECA 08P 9P06 C4	6	1"5/8	1"5/8	1241	
ECA 08P 9P02 C2	2		7/8"	7/8"	413	ECA 08P 9P08 B2	8	1"5/8	1"5/8	1224	
ECA 08P 9P02 C3	2		1"1/8	1"1/8	444	ECA 08P 9P10 B1	10	1"5/8	1"5/8	1385	
ECA 08P 9P02 D2	2		1"1/8	1"1/8	452	ECA 08P 9P08 B3	8	1"5/8	1"5/8	1324	
ECA 08P 9P02 C4	2		1"1/8	1"1/8	475	ECA 08P 9P08 D1	8	1"5/8	1"5/8	1324	
ECA 08P 9P02 D3	2		1"1/8	1"1/8	489	ECA 08P 9P08 B4	8	2"1/8	2"1/8	1424	
ECA 08P 9P02 D4	2		1"1/8	1"1/8	527	ECA 08P 9P08 C2	8	2"1/8	2"1/8	1374	
ECA 08P 9P04 B1	4		1"1/8	1"1/8	614	ECA 08P 9P10 C1	10	2"1/8	2"1/8	1539	
ECA 08P 9P04 C1	4		1"1/8	1"1/8	671	ECA 08P 9P10 B2	10	2"1/8	2"1/8	1510	
ECA 08P 9P04 B2	4		1"1/8	1"1/8	664	ECA 08P 9P08 C3	8	2"1/8	2"1/8	1499	
ECA 08P 9P04 B3	4		1"3/8	1"3/8	714	ECA 08P 9P08 D2	8	2"1/8	2"1/8	1474	
ECA 08P 9P04 D1	4		1"3/8	1"3/8	737	ECA 08P 9P12 B1	12	2"1/8	2"1/8	1635	
ECA 08P 9P04 B4	4		1"3/8	1"3/8	764	ECA 08P 9P08 C4	8	2"1/8	2"1/8	1624	
ECA 08P 9P04 C2	4		1"3/8	1"3/8	733	ECA 08P 9P10 B3	10	2"1/8	2"1/8	1635	
ECA 08P 9P04 D3	4		1"3/8	1"3/8	796	ECA 08P 9P08 D3	8	2"1/8	2"1/8	1624	
ECA 08P 9P04 D2	4		1"3/8	1"3/8	812	ECA 08P 9P10 B4	10	2"1/8	2"1/8	1760	
ECA 08P 9P06 B1	6		1"3/8	1"3/8	875	ECA 08P 9P10 C2	10	2"1/8	2"1/8	1694	
ECA 08P 9P04 C4	4		1"3/8	1"3/8	858	ECA 08P 9P08 D4	8	2"1/8	2"1/8	1775	
ECA 08P 9P04 D4	4		1"3/8	1"3/8	887	ECA 08P 9P12 B2	12	2"1/8	2"1/8	1785	
ECA 08P 9P06 C1	6		1"3/8	1"3/8	962	ECA 08P 9P10 C3	10	2"1/8	2"1/8	1851	
ECA 08P 9P06 B2	6		1"3/8	1"3/8	950	ECA 08P 9P10 C4	10	2"1/8	2"1/8	2007	
						ECA 08P 9P12 B3	12	2"1/8	2"1/8	1935	
						ECA 08P 9P12 B4	12	2"1/8	2"1/8	2085	

(1) Ventilateurs - Fans - Ventilatoren: ø 900 mm - 400 V/3/50 Hz
(2) Voir page 18, § 8. See page 18, § 8. Siehe Seite 18, § 8.

Δ : 1350W max.- 4A max (2)

ECA 12N. L... (ø 762 = 660tr/min - r.p.m.- U/min/ø 900 = 570 tr/min - r.p.m. -U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg	Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg
	Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø			Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø	
ECA 12N 7L01 A1	1		7/8"	7/8"	165	ECA 12N 9L02 C3	2		1 3/8	1 3/8	448
ECA 12N 7L01 A2	1		7/8"	7/8"	174	ECA 12N 9L02 D2	2		1 3/8	1 3/8	471
ECA 12N 7L01 A3	1		7/8"	7/8"	183	ECA 12N 9L03 B1	3		1 3/8	1 3/8	481
ECA 12N 9L01 B1	1		7/8"	7/8"	193	ECA 12N 9L02 D3	2		1 3/8	1 3/8	509
ECA 12N 9L01 B2	1		7/8"	7/8"	206	ECA 12N 9L03 B2	3		1 3/8	1 3/8	519
ECA 12N 9L01 C1	1		7/8"	7/8"	215	ECA 12N 9L03 C1	3		1 3/8	1 3/8	557
ECA 12N 9L01 B3	1		7/8"	7/8"	218	ECA 12N 9L03 B3	3		1 5/8	1 5/8	556
ECA 12N 9L01 C2	1		7/8"	7/8"	230	ECA 12N 9L03 C2	3		1 5/8	1 5/8	604
ECA 12N 9L01 D1	1		7/8"	7/8"	239	ECA 12N 9L04 B1	4		1 5/8	1 5/8	620
ECA 12N 9L01 C3	1		1 1/8	1 1/8	246	ECA 12N 9L03 C3	3		1 5/8	1 5/8	651
ECA 12N 9L01 D2	1		1 1/8	1 1/8	257	ECA 12N 9L04 B2	4		1 5/8	1 5/8	670
ECA 12N 7L02 A1	2		7/8"	7/8"	275	ECA 12N 9L04 B3	4		1 5/8	1 5/8	720
ECA 12N 9L01 D3	1		1 1/8	1 1/8	276	ECA 12N 9L05 B1	5		1 5/8	1 5/8	770
ECA 12N 7L02 A2	2		1 1/8	1 1/8	293	ECA 12N 9L04 C2	4		2 1/8	2 1/8	791
ECA 12N 7L02 A3	2		1 1/8	1 1/8	311	ECA 12N 9L04 C3	4		2 1/8	2 1/8	853
ECA 12N 9L02 B1	2		1 1/8	1 1/8	332	ECA 12N 9L05 B2	5		2 1/8	2 1/8	832
ECA 12N 7L03 A1	3		1 1/8	1 1/8	397	ECA 12N 9L05 B3	5		2 1/8	2 1/8	895
ECA 12N 9L02 B2	2		1 1/8	1 1/8	357	ECA 12N 9L05 C1	5		2 1/8	2 1/8	910
ECA 12N 9L02 C1	2		1 1/8	1 1/8	386	ECA 12N 9L06 B1	6		2 1/8	2 1/8	930
ECA 12N 9L02 B3	2		1 3/8	1 3/8	382	ECA 12N 9L05 C2	5		2 1/8	2 1/8	990
ECA 12N 7L03 A2	3		1 1/8	1 1/8	424	ECA 12N 9L06 B2	6		2 1/8	2 1/8	1000
ECA 12N 9L02 C2	2		1 3/8	1 3/8	417	ECA 12N 9L05 C3	5		2 1/8	2 1/8	1070
ECA 12N 9L02 D1	2		1 3/8	1 3/8	434	ECA 12N 9L06 B3	6		2 1/8	2 1/8	1070
ECA 12N 7L03 A3	3		1 3/8	1 3/8	450						

(1) Ventilateurs - Fans - Ventilatoren: ø 762/900 mm - 400 V/3/50 Hz Y : 890 W max.-2A max (2)

ECA 12N. P... (ø 900 = 570tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg	Modèles Models Modelle	Moteurs (1) Motors Motoren		Raccordements Connection Anschlüsse		Poids Weight Gewicht kg
	Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø			Nb No Anz		Entrée Inlet Eintritt ø	Sortie Outlet Austritt ø	
ECA 12N 9P02 B1	2		7/8"	7/8"	364	ECA 12N 9P06 B3	6		1 5/8	1 5/8	1025
ECA 12N 9P02 B2	2		7/8"	7/8"	389	ECA 12N 9P06 C2	6		1 5/8	1 5/8	1054
ECA 12N 9P02 C1	2		7/8"	7/8"	382	ECA 12N 9P08 B1	8		1 5/8	1 5/8	1125
ECA 12N 9P02 B3	2		7/8"	7/8"	414	ECA 12N 9P06 C3	6		1 5/8	1 5/8	1147
ECA 12N 9P02 C2	2		7/8"	7/8"	413	ECA 12N 9P08 B2	8		1 5/8	1 5/8	1224
ECA 12N 9P02 D1	2		7/8"	7/8"	414	ECA 12N 9P08 B3	8		1 5/8	1 5/8	1324
ECA 12N 9P02 C3	2		1 1/8	1 1/8	444	ECA 12N 9P10 B1	10		1 5/8	1 5/8	1385
ECA 12N 9P02 D2	2		1 1/8	1 1/8	452	ECA 12N 9P08 C2	8		2 1/8	2 1/8	1374
ECA 12N 9P02 D3	2		1 1/8	1 1/8	489	ECA 12N 9P08 D1	8		1 5/8	1 5/8	1324
ECA 12N 9P04 B1	4		1 1/8	1 1/8	614	ECA 12N 9P08 C3	8		2 1/8	2 1/8	1499
ECA 12N 9P04 B2	4		1 1/8	1 1/8	664	ECA 12N 9P10 B2	10		2 1/8	2 1/8	1510
ECA 12N 9P04 C1	4		1 1/8	1 1/8	671	ECA 12N 9P08 D2	8		2 1/8	2 1/8	1474
ECA 12N 9P04 B3	4		1 3/8	1 3/8	714	ECA 12N 9P10 C1	10		2 1/8	2 1/8	1539
ECA 12N 9P04 C2	4		1 3/8	1 3/8	733	ECA 12N 9P10 B3	10		2 1/8	2 1/8	1635
ECA 12N 9P04 D1	4		1 3/8	1 3/8	737	ECA 12N 9P12 B1	12		2 1/8	2 1/8	1635
ECA 12N 9P04 C3	4		1 3/8	1 3/8	796	ECA 12N 9P08 D3	8		2 1/8	2 1/8	1624
ECA 12N 9P04 D2	4		1 3/8	1 3/8	812	ECA 12N 9P10 C2	10		2 1/8	2 1/8	1694
ECA 12N 9P06 B1	6		1 3/8	1 3/8	875	ECA 12N 9P12 B2	12		2 1/8	2 1/8	1785
ECA 12N 9P04 D3	4		1 3/8	1 3/8	887	ECA 12N 9P10 C3	10		2 1/8	2 1/8	1851
ECA 12N 9P06 B2	6		1 3/8	1 3/8	950	ECA 12N 9P12 B3	12		2 1/8	2 1/8	1935
ECA 12N 9P06 C1	6		1 3/8	1 3/8	960						

(1) Ventilateurs - Fans - Ventilatoren: ø 900 mm - 400 V/3/50 Hz
(2) Voir page 18, § 8. See page 18, § 8. Siehe Seite 18, § 8.

Y : 890 W max.- 2A max (2)

ECA 12P. L...

(\varnothing 762 = 450tr/min - r.p.m.- U/min

\varnothing 900 = 430tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht
		Entrée Inlet Eintritt \varnothing	Sortie Outlet Austritt \varnothing	
	Nb No Anz			kg
ECA 12P 7L01 A1	1	7/8"	7/8"	165
ECA 12P 7L01 A2	1	7/8"	7/8"	174
ECA 12P 9L01 B1	1	7/8"	7/8"	193
ECA 12P 9L01 B2	1	7/8"	7/8"	206
ECA 12P 9L01 C1	1	7/8"	7/8"	215
ECA 12P 9L01 C2	1	7/8"	7/8"	230
ECA 12P 9L01 D1	1	7/8"	7/8"	239
ECA 12P 9L01 D2	1	1"1/8	1"1/8	257
ECA 12P 7L02 A1	2	7/8"	7/8"	275
ECA 12P 7L02 A2	2	1"1/8	1"1/8	293
ECA 12P 9L02 B1	2	1"1/8	1"1/8	332
ECA 12P 7L03 A1	3	1"1/8	1"1/8	397
ECA 12P 9L02 B2	2	1"1/8	1"1/8	357
ECA 12P 7L03 A2	3	1"1/8	1"1/8	424
ECA 12P 9L02 C1	2	1"1/8	1"1/8	386
ECA 12P 9L02 C2	2	1"3/8	1"3/8	417
ECA 12P 9L02 D1	2	1"3/8	1"3/8	434
ECA 12P 9L02 D2	2	1"3/8	1"3/8	471
ECA 12P 9L03 B1	3	1"3/8	1"3/8	481
ECA 12P 9L03 B2	3	1"3/8	1"3/8	519
ECA 12P 9L03 C1	3	1"3/8	1"3/8	557
ECA 12P 9L03 C2	3	1"5/8	1"5/8	604
ECA 12P 9L03 D1	3	1"5/8	1"5/8	629
ECA 12P 9L04 B1	4	1"5/8	1"5/8	620
ECA 12P 9L04 B2	4	1"5/8	1"5/8	670
ECA 12P 9L04 C1	4	1"5/8	1"5/8	729
ECA 12P 9L04 C2	4	2"1/8	2"1/8	791
ECA 12P 9L05 B1	5	1"5/8	1"5/8	770
ECA 12P 9L05 B2	5	2"1/8	2"1/8	832
ECA 12P 9L05 C1	5	2"1/8	2"1/8	910
ECA 12P 9L06 B1	6	2"1/8	2"1/8	930
ECA 12P 9L05 C2	5	2"1/8	2"1/8	990
ECA 12P 9L06 B2	6	2"1/8	2"1/8	1000

(1) Ventilateurs - Fans - Ventilatoren: \varnothing 762/900 mm - 400 V/3/50 Hz Δ : 500W max.- 1,8A max (2)

ECA 12P. P...

(\varnothing 900 = 430tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht
		Entrée Inlet Eintritt \varnothing	Sortie Outlet Austritt \varnothing	
	Nb No Anz			kg
ECA 12P 9P02 B1	2	7/8"	7/8"	364
ECA 12P 9P02 B2	2	7/8"	7/8"	389
ECA 12P 9P02 C1	2	7/8"	7/8"	382
ECA 12P 9P02 C2	2	7/8"	7/8"	413
ECA 12P 9P02 D1	2	7/8"	7/8"	414
ECA 12P 9P02 D2	2	1"1/8	1"1/8	452
ECA 12P 9P04 B1	4	1"1/8	1"1/8	614
ECA 12P 9P04 B2	4	1"1/8	1"1/8	664
ECA 12P 9P04 C1	4	1"1/8	1"1/8	671
ECA 12P 9P04 C2	4	1"3/8	1"3/8	733
ECA 12P 9P04 D1	4	1"3/8	1"3/8	737
ECA 12P 9P04 D2	4	1"3/8	1"3/8	812
ECA 12P 9P06 B1	6	1"3/8	1"3/8	875
ECA 12P 9P06 B2	6	1"3/8	1"3/8	950
ECA 12P 9P06 C1	6	1"3/8	1"3/8	960
ECA 08P 9P06 C2	6	1"5/8	1"5/8	1054
ECA 08P 9P06 D1	6	1"5/8	1"5/8	1059
ECA 08P 9P08 B1	8	1"5/8	1"5/8	1125
ECA 08P 9P08 B2	8	1"5/8	1"5/8	1224
ECA 08P 9P08 C1	8	1"5/8	1"5/8	1250
ECA 08P 9P08 C2	8	2"1/8	2"1/8	1374
ECA 08P 9P10 B1	10	1"5/8	1"5/8	1385
ECA 08P 9P08 D1	8	1"5/8	1"5/8	1324
ECA 08P 9P10 B2	10	2"1/8	2"1/8	1510
ECA 08P 9P08 D2	8	2"1/8	2"1/8	1474
ECA 08P 9P10 C1	10	2"1/8	2"1/8	1539
ECA 08P 9P12 B1	12	2"1/8	2"1/8	1635
ECA 08P 9P10 C2	10	2"1/8	2"1/8	1694
ECA 08P 9P12 B2	12	2"1/8	2"1/8	1785

(1) Ventilateurs - Fans - Ventilatoren: \varnothing 900 mm - 400 V/3/50 Hz Δ : 500W max.- 1,8A max (2)

ECA 16P. L...

(\varnothing 762 = 380tr/min - r.p.m.- U/min

\varnothing 900 = 320 tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht
		Entrée Inlet Eintritt \varnothing	Sortie Outlet Austritt \varnothing	
	Nb No Anz			kg
ECA 16P 7L01 A1	1	7/8"	7/8"	165
ECA 16P 9L01 B1	1	7/8"	7/8"	193
ECA 16P 9L01 C1	1	7/8"	7/8"	215
ECA 16P 9L01 D1	1	7/8"	7/8"	239
ECA 16P 7L02 A1	2	7/8"	7/8"	275
ECA 16P 9L02 B1	2	1"1/8	1"1/8	332
ECA 16P 7L03 A1	3	1"1/8	1"1/8	397
ECA 16P 9L02 C1	2	1"1/8	1"1/8	386
ECA 16P 7L03 A2	3	1"1/8	1"1/8	424
ECA 16P 9L02 D1	2	1"3/8	1"3/8	434
ECA 16P 9L03 B1	3	1"3/8	1"3/8	481
ECA 16P 9L03 C1	3	1"3/8	1"3/8	557
ECA 16P 9L03 D1	3	1"5/8	1"5/8	629
ECA 16P 9L04 B1	4	1"5/8	1"5/8	620
ECA 16P 9L04 C1	4	1"5/8	1"5/8	729
ECA 16P 9L05 B1	5	1"5/8	1"5/8	770
ECA 16P 9L05 C1	5	2"1/8	2"1/8	910
ECA 16P 9L06 B1	6	2"1/8	2"1/8	930

(1) Ventilateurs - Fans - Ventilatoren: \varnothing 762/900 mm - 400 V/3/50 Hz Y : 280W max.- 0,8A max (2)
(2) Voir page 18, § 8. See page 18, § 8. Siehe Seite 18, § 8.

ECA 16P. P...

(\varnothing 900 = 320tr/min - r.p.m.- U/min)

Modèles Models Modelle	Moteurs (1) Motors Motoren	Raccordements Connection Anschlüsse		Poids Weight Gewicht
		Entrée Inlet Eintritt \varnothing	Sortie Outlet Austritt \varnothing	
	Nb No Anz			kg
ECA 16P 9P02 B1	2	7/8"	7/8"	364
ECA 16P 9P02 C1	2	7/8"	7/8"	382
ECA 16P 9P02 D1	2	7/8"	7/8"	414
ECA 16P 9P04 B1	4	1"1/8	1"1/8	614
ECA 16P 9P04 C1	4	1"1/8	1"1/8	671
ECA 16P 9P04 D1	4	1"3/8	1"3/8	737
ECA 16P 9P06 B1	6	1"3/8	1"3/8	875
ECA 16P 9P06 C1	6	1"3/8	1"3/8	960
ECA 16P 9P06 D1	6	1"5/8	1"5/8	1059
ECA 16P 9P08 B1	8	1"5/8	1"5/8	1125
ECA 16P 9P08 C1	8	1"5/8	1"5/8	1250
ECA 16P 9P10 B1	10	1"5/8	1"5/8	1385
ECA 16P 9P08 D1	8	1"5/8	1"5/8	1324
ECA 16P 9P10 C1	10	2"1/8	2"1/8	1539
ECA 16P 9P12 B1	12	2"1/8	2"1/8	1635

(1) Ventilateurs - Fans - Ventilatoren: \varnothing 900 mm - 400 V/3/50 Hz Y : 280W max.- 0,8A max (2)

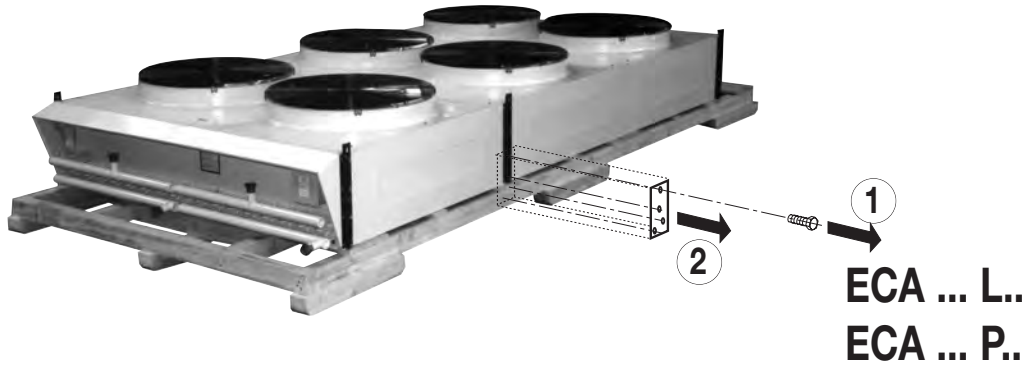
6. AIR HORIZONTAL

HORIZONTAL AIR FLOW - HORIZONTAL LUFT

6.1 MONTAGE DES PIEDS - LEG MOUNTING - FUSSMONTAGE

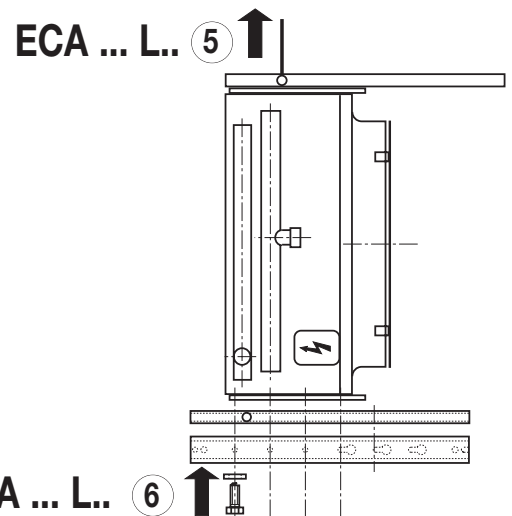
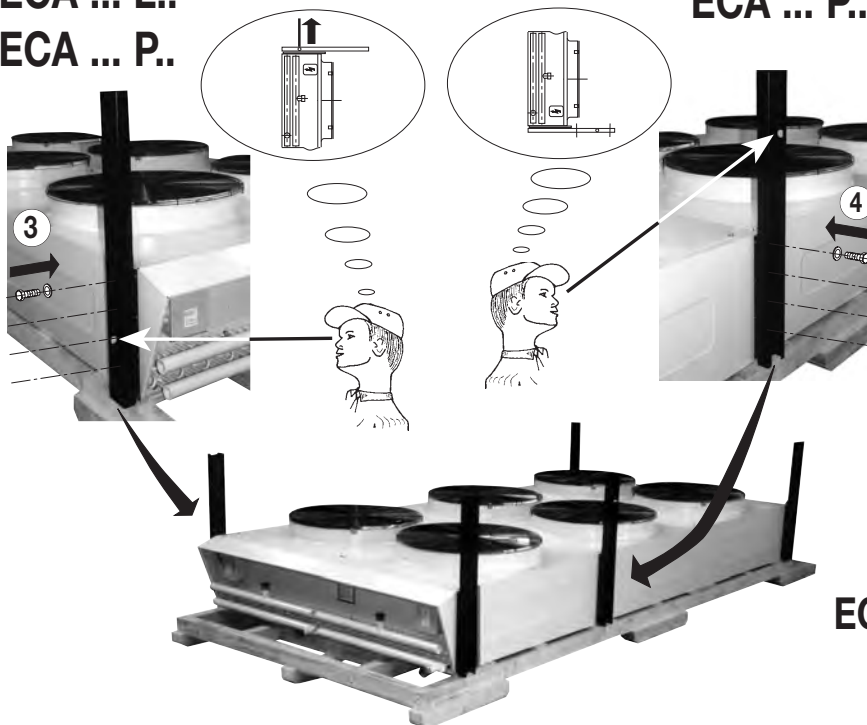
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ECA ... P.. → ① → ② → ③ → ④ → ⑤ → ⑥ → ⑦ → ⑧ → ⑨



ECA ... L..
ECA ... P..

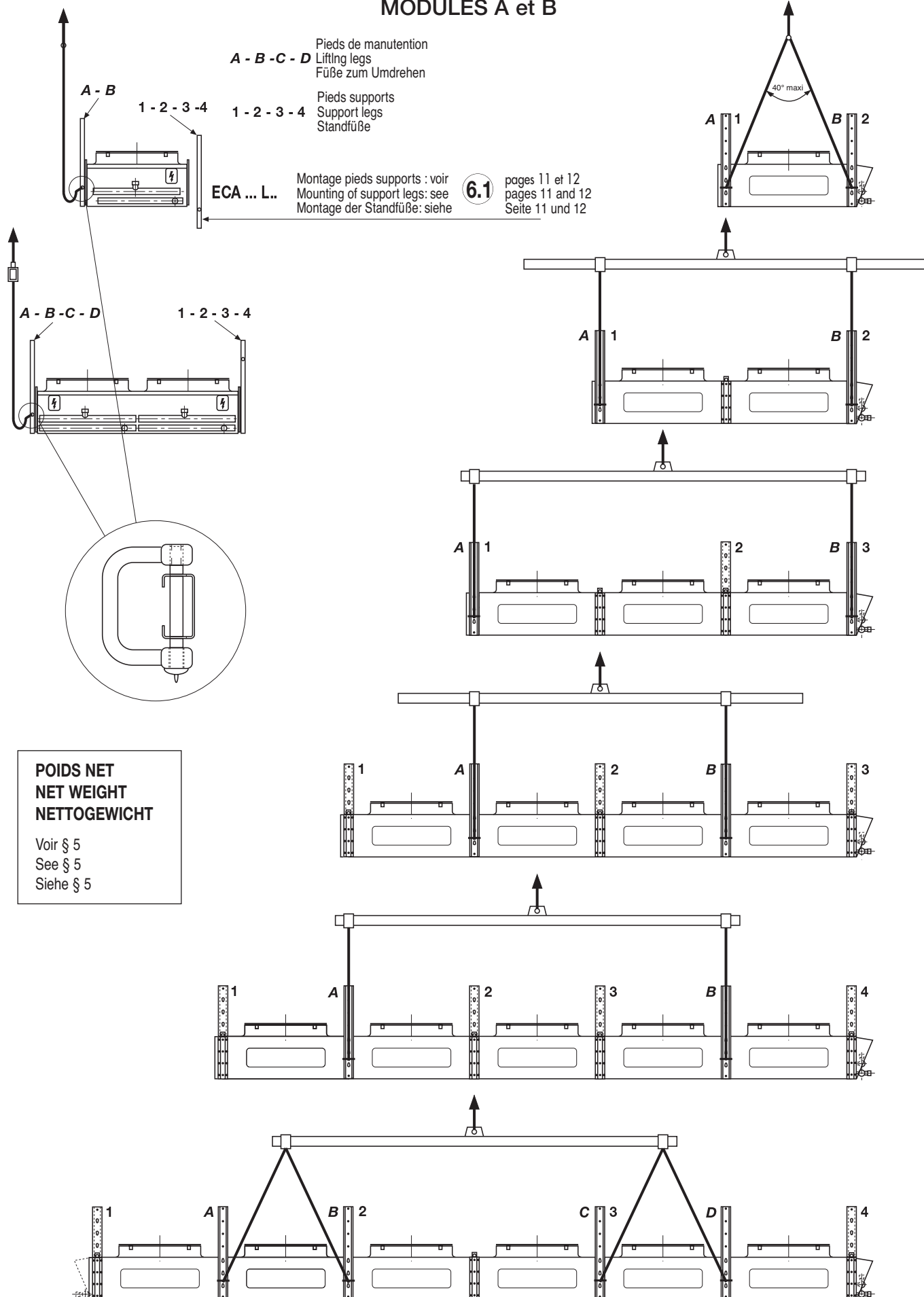
ECA ... P..





6.2 POINTS DE MANUTENTION POUR RETOURNEMENT - POSITION PIEDS SUPPORTS ERECTING LIFTING LOCATIONS FOR HORIZONTAL AIR FLOW - LOCATION OF SUPPORTS AUFHÄNGUNGSPUNKTE ZUM UMDREHEN DES GERÄTES - POSITION DER STANFÜSSE

MODULES A et B



6.2 POINTS DE MANUTENTION POUR RETOURNEMENT - POSITION PIEDS SUPPORTS ERECTING LIFTING LOCATIONS FOR HORIZONTAL AIR FLOW - LOCATION OF SUPPORTS AUFHÄNGUNGSPUNKTE ZUM UMDREHEN DES GERÄTES - POSITION DER STANFÜSSE

MODULES C et D

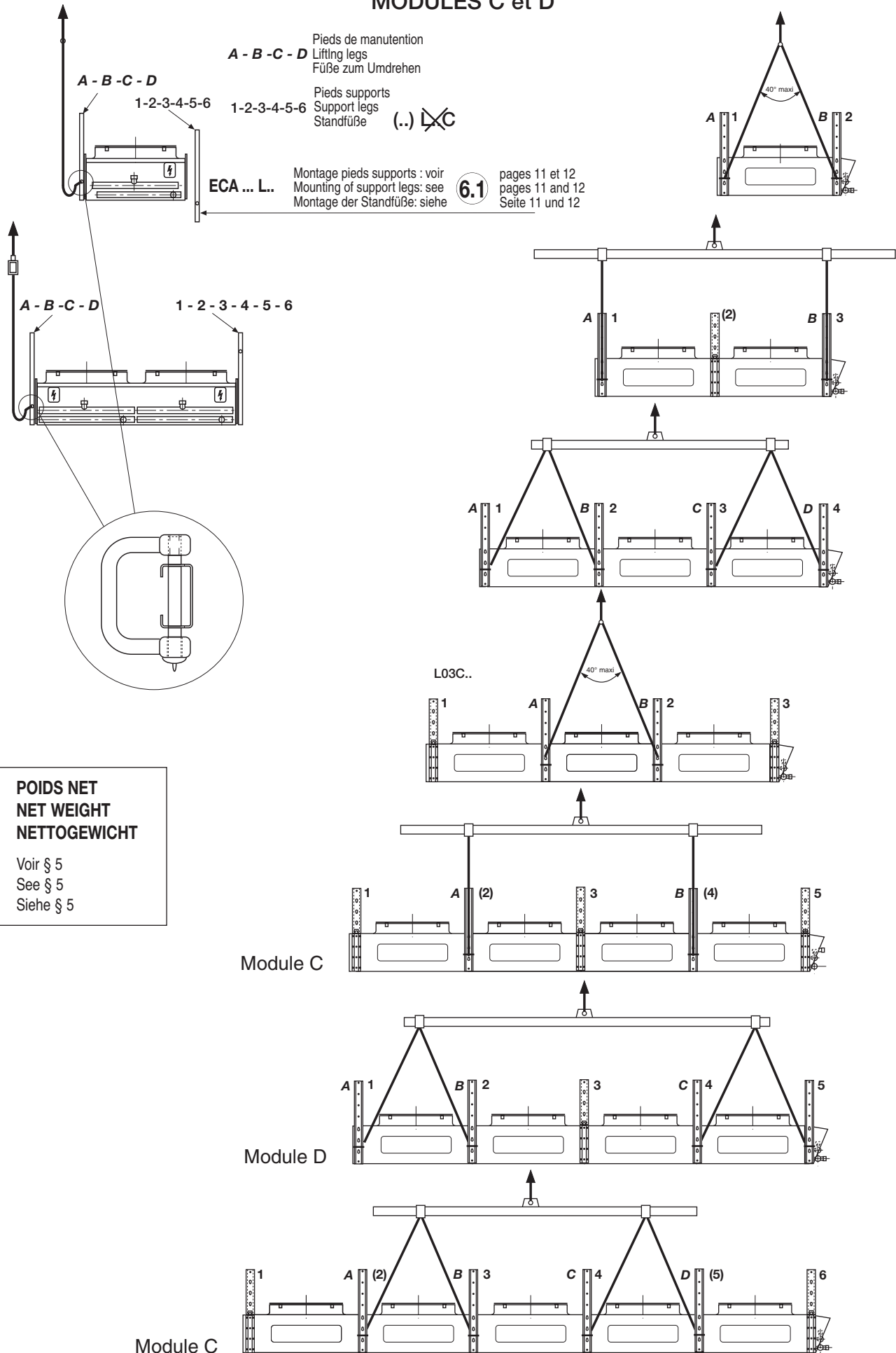
A - B - C - D Pieds de manutention
 Lifting legs
 Füße zum Umdrehen

1-2-3-4-5-6 Pieds supports
 Support legs
 Standfüße

(..)

ECA ... L. Montage pieds supports : voir pages 11 et 12
 Mounting of support legs: see pages 11 and 12
 Montage der Standfüße: siehe Seite 11 und 12

6.1



6.3 EMLACEMENT DES POINTS DE FIXATION FITTING POINT LOCATIONS - BEFESTIGUNGSPUNKTE

F AIR HORIZONTAL

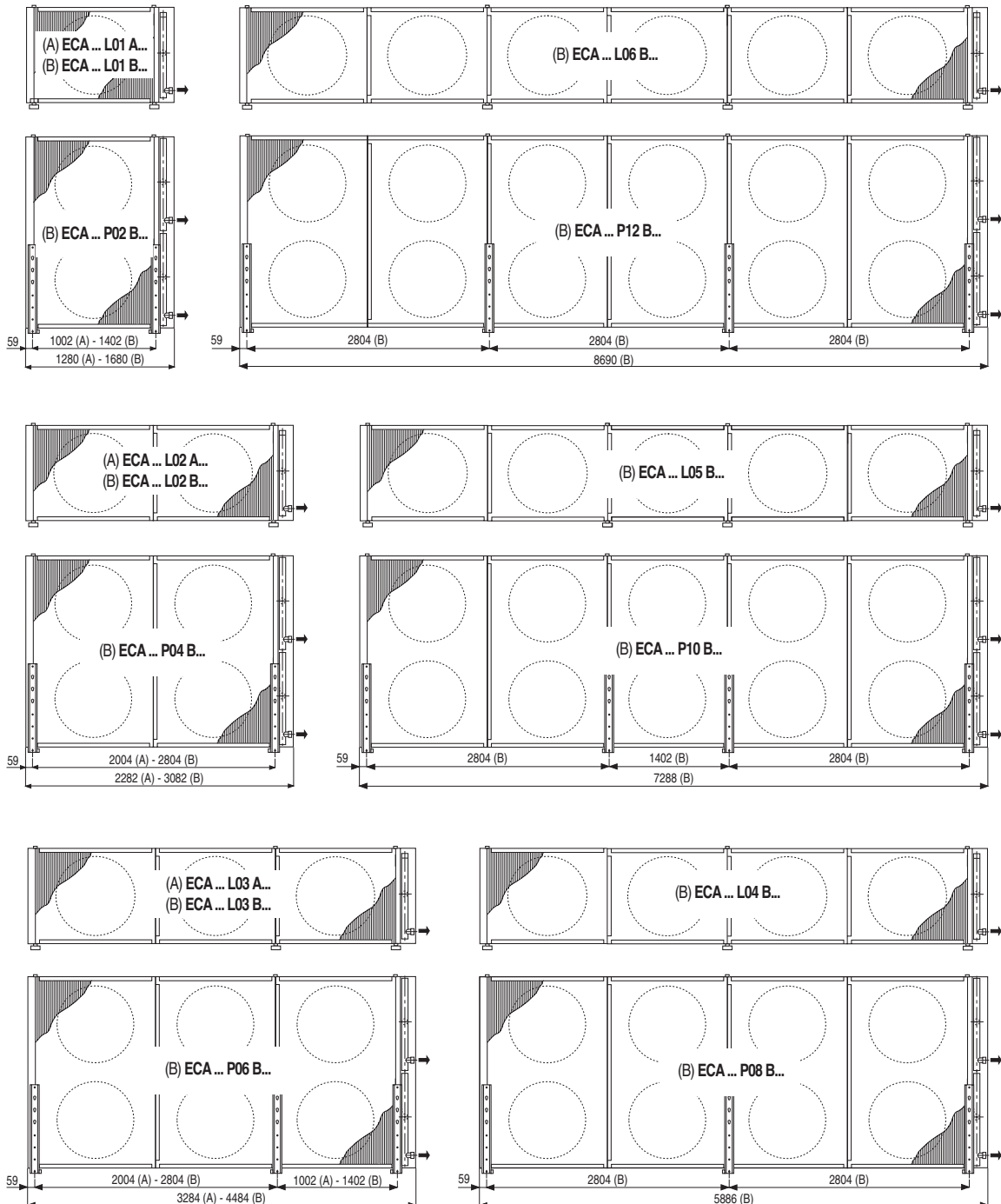
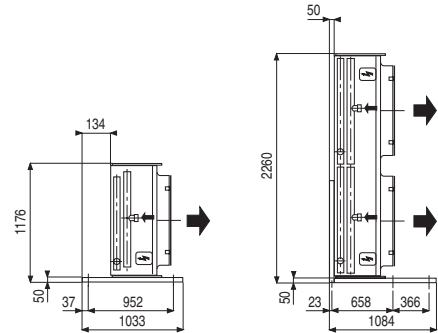
GB HORIZONTAL AIR FLOW

D LUFT HORIZONTAL

F TYPE DE MODULE : A & B

GB TYPE OF MODULE : A & B

GB MODULTYP : A & B



6.3 EMPLACEMENT DES POINTS DE FIXATION FITTING POINT LOCATIONS - BEFESTIGUNGSPUNKTE

F AIR HORIZONTAL

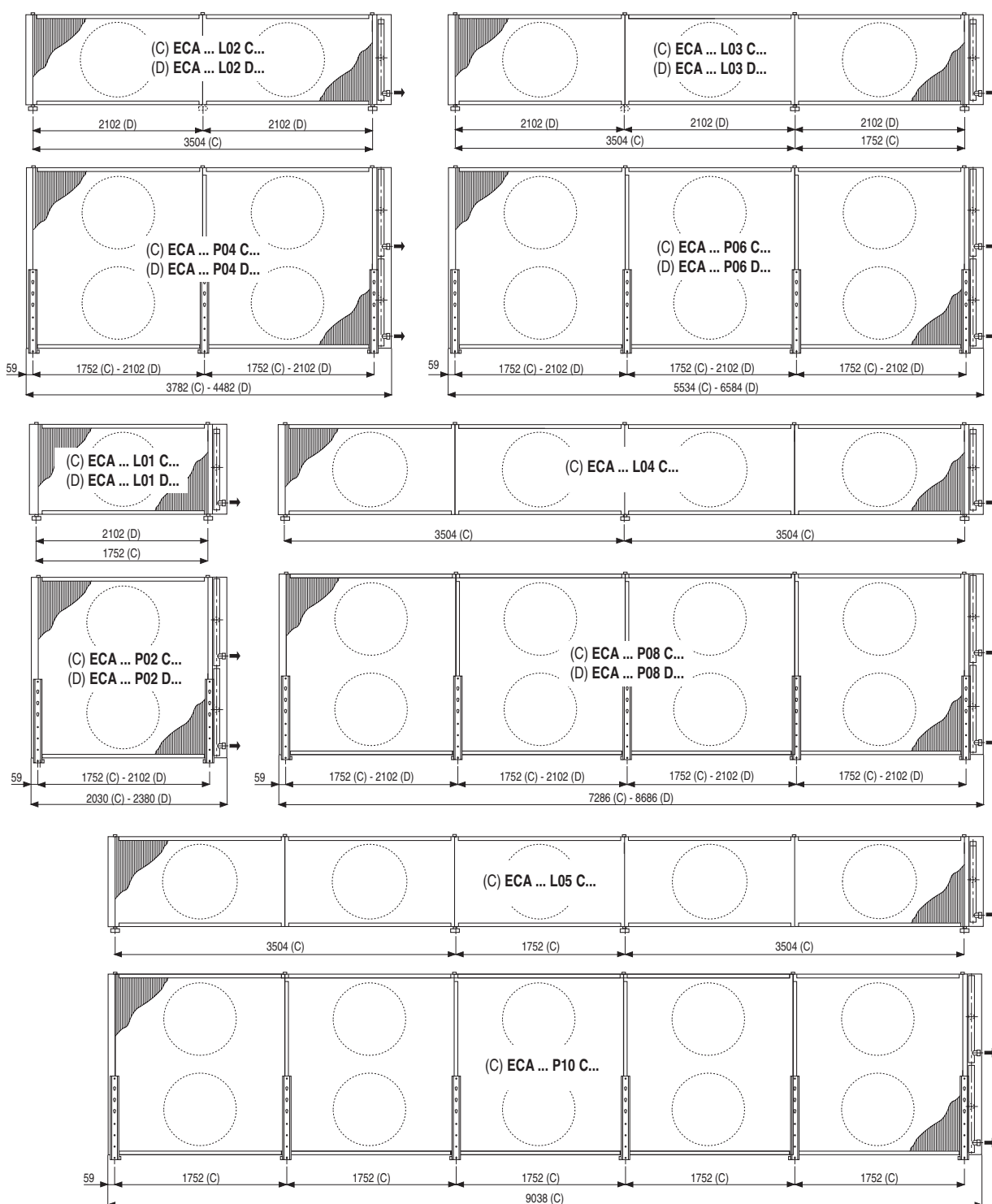
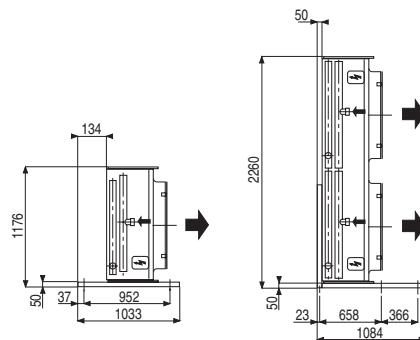
GB HORIZONTAL AIR FLOW

D LUFT HORIZONTAL

F TYPE DE MODULE : C & D

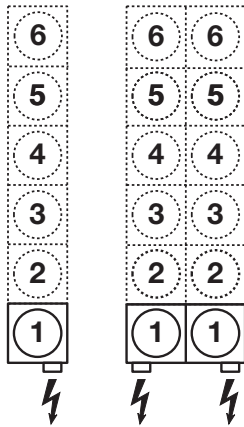
GB TYPE OF MODULE : C & D

GB MODULTYP : C & D



7. RACCORDEMENTS ELECTRIQUES ELECTRICAL CONNECTIONS - ELEKTRISCHE ANSCHLÜSS

Raccordements moteurs
Motors connection
Motoranschlüsse



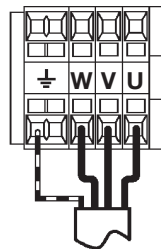
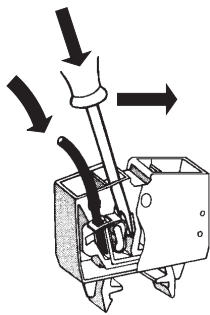
STANDARD

C2V *

OPTION : CABLAGE 2VITESSES

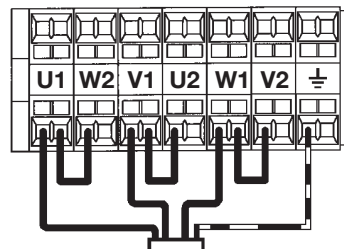
OPTION: 2 SPEED WIRING

OPTION: VERKABELUNG FÜR ZWEI DREHZAHLBEREICHE



400 V / 3

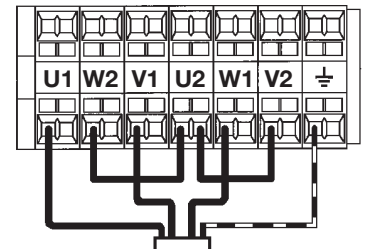
OPTION : 230 V / 3



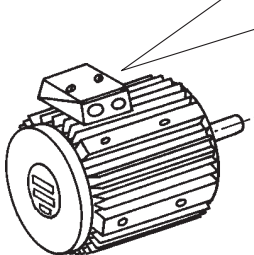
Δ

400 V / 3

OPTION: 230 V / 3



Y



STANDARD

TRANSFORMATION POSSIBLE
POSSIBLE MODIFICATION
UMSPANNUNG MÖGLICH

06 P

08 P → = 12 N

12 N → = 8 P

12 P → = 16 P*

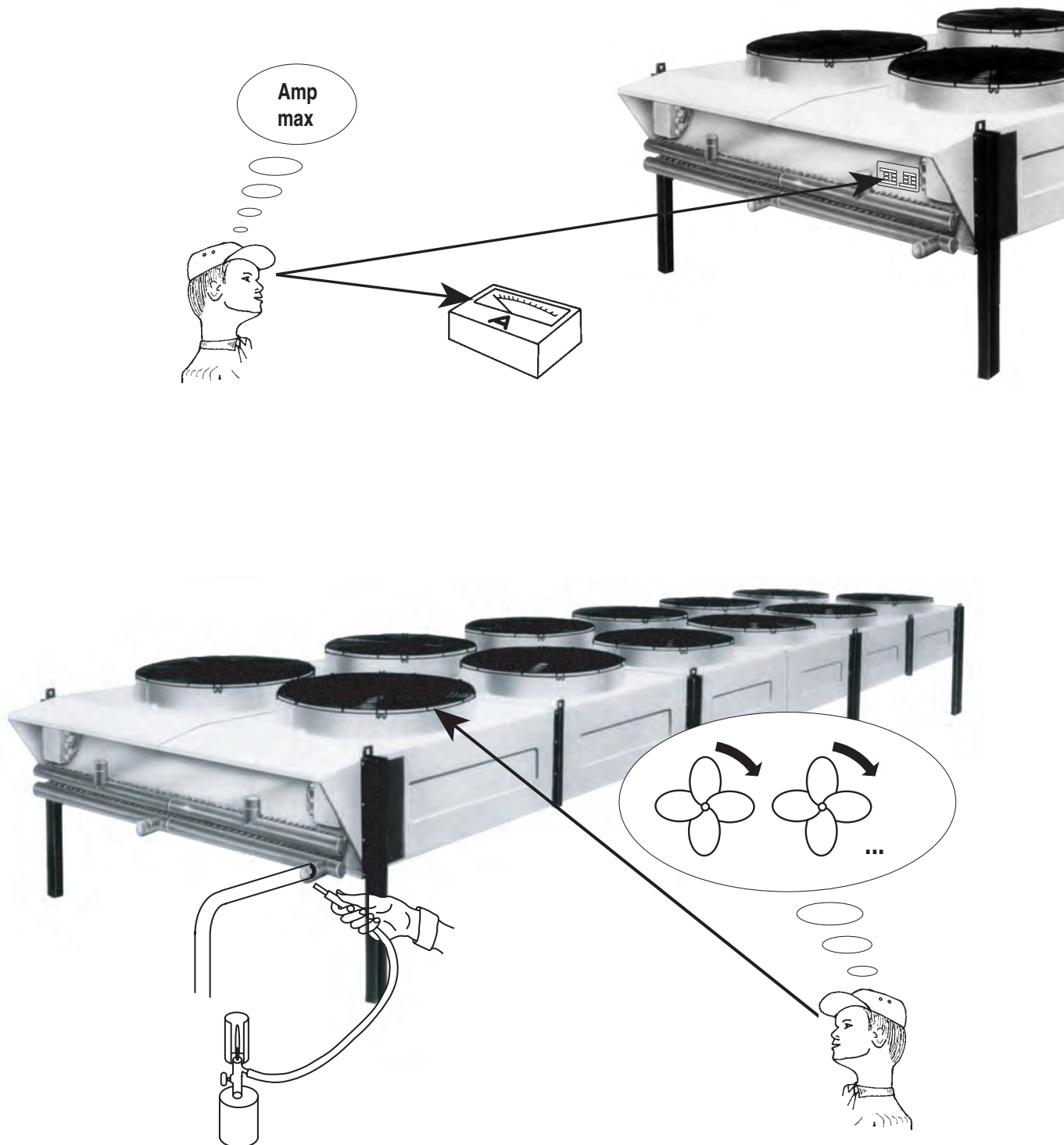
16 P → = 12 P

* Déconseillé pour :
Unsuitable for:
Nicht ratsam für:

12 P... B2
... C2
... D2

8. MISE EN SERVICE - START UP - INBETRIEBNAHME

- (2) Réglage des protections contre les surcharges.
Setting of overbad protections
Einstellung desq Überlastschutzes



9. ENTRETIEN - MAINTENANCE - WARTUNG

Nettoyer périodiquement à l'aide d'un produit non agressif et rincer à l'eau claire :

- la batterie : pression maximale 3 bars et jet orienté face à la tranche des ailettes.
- les hélices, les grilles et la carrosserie.

Vérifier à la mise en route et périodiquement, le serrage des vis d'assemblage, l'état et le serrage des composants électriques.

DEFAULT DE FONCTIONNEMENT

Le moteur ne tourne pas : avant toute intervention, vérifier l'alimentation électrique. S'assurer que l'hélice tourne librement.

L'appareil vibre : vérifier les hélices et remplacer l'hélice défectueuse, s'assurer de l'absence de glace sur les hélices.

Moteurs à roulements : prévoir le remplacement des roulements toutes les 35000 → 40000 heures. La durée de vie des roulements peut être considérablement réduite lorsque la température de l'air circulant sur le moteur est élevée.

Clean periodically with a non aggressive solution and rinse with clean water:

- coil: maximum 3 bars water pressure and jet facing the fin edges.
- fan blades, fan guards and casing.

At start up and periodically, check for eventual loosen screws, the condition and tightening of the electrical connections.

FAILURES

Motor does not turn: before any intervention, check the electric supply. Make sure that the fan blade is turning freely.

The unit vibrates: check the fan blades and replace the defective one, make sure that fan blades are free of ice.

Ball bearing motors: plan ball bearing replacement each 35,000 → 40,000 hours. The ball bearing life can be largely reduced with air flow at high temperature on the motor.

Folgende Teile regelmäßig mit einem milden Reinigungsmittel reinigen und mit klarem Wasser spülen:

- Batterie: maximaler Druck des Wasserstrahls, der senkrecht zur Kante der Lamellen gerichtet sein muß: 3 Bar.
- Ventilatorflügel, Schutzgitter und Gehäuse.

Bei der Inbetriebnahme regelmäßig prüfen, ob alle Schrauben gut festgezogen sind. Zustand und Befestigung der elektrischen Komponenten überprüfen.

STÖRUNGEN

Der Motor läuft nicht: vor jeglichem Eingriff Stromversorgung überprüfen. Prüfen, ob sich die Ventilatorflügel leichtgängig drehen.

Das Gerät vibriert: Ventilatorflügel überprüfen und defekten Flügel austauschen. Sicherstellen, daß die Flügel nicht vereist sind.

Bei Motoren Kugellager: Auswechseln der Lager nach jeweils 35.000 → 40.000 Betriebsstunden. Die Lebensdauer der Kugellager kann sich bei hoher Motor-Umgebungstemperatur stark reduzieren.

10. PIECES DETACHEES - SPARE PARTS - ERSATZTEILE

Moteur	Hélice	Grille	Ensemble support moteur
Motor	Fan blade	Fan guard	Motor support assembly
motor	Flügel	Gitter	Zusammengebauter Motorträger

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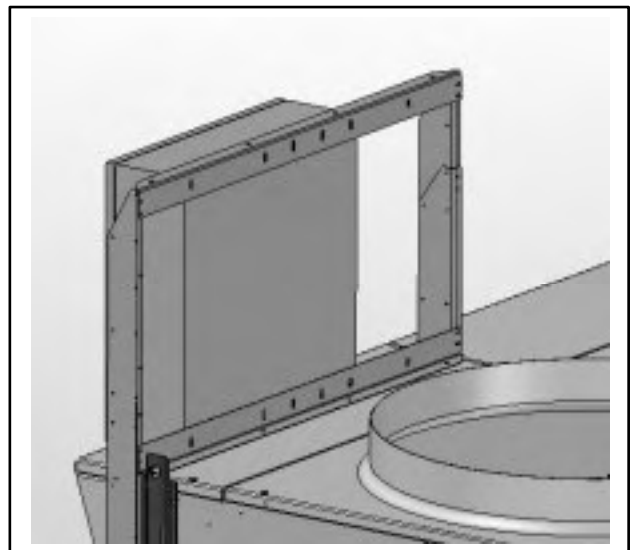
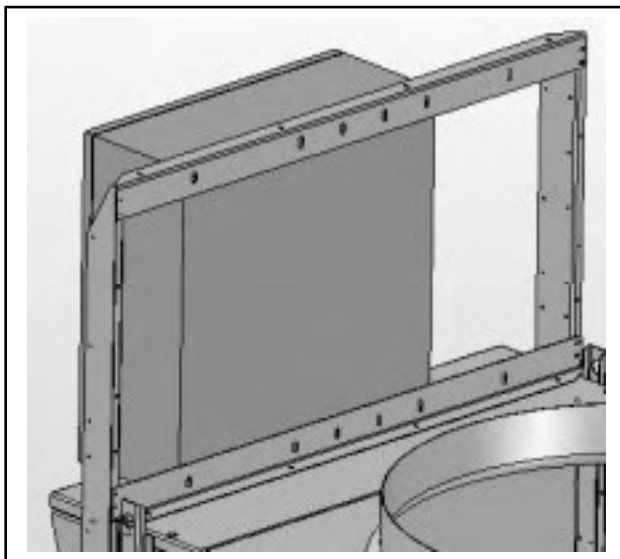
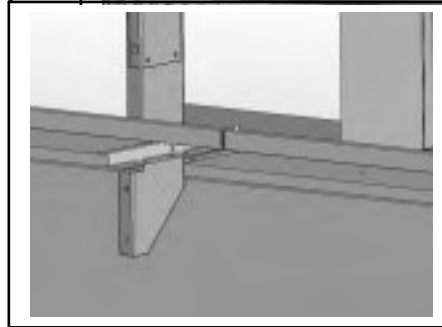
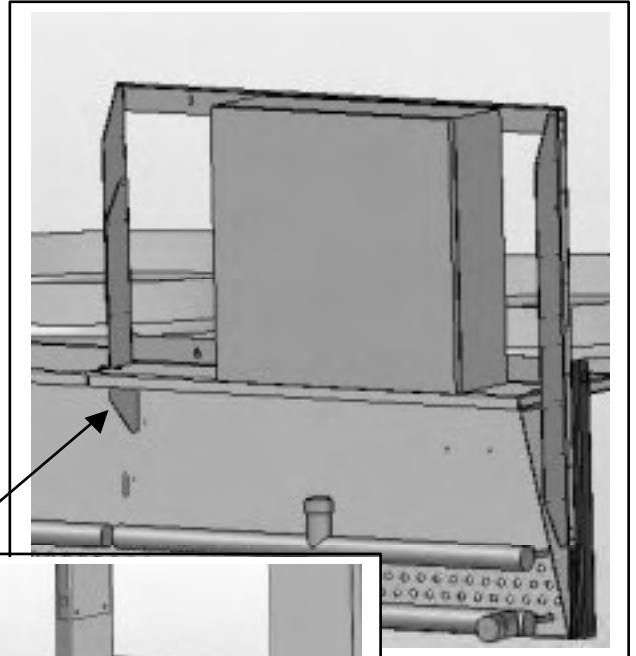
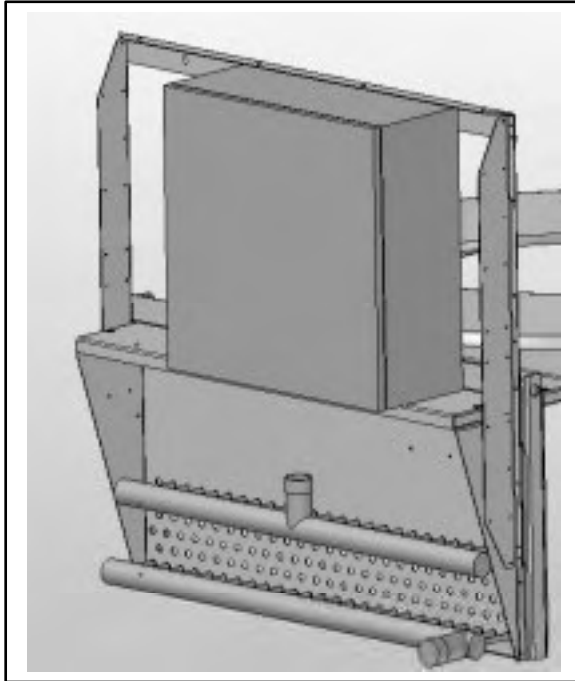
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N° IN0013400-/-

NOTICE D'INSTALLATION - INSTALLATION INSTRUCTIONS - INSTALLATIONSNOTIZ

OU
OR
WO



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