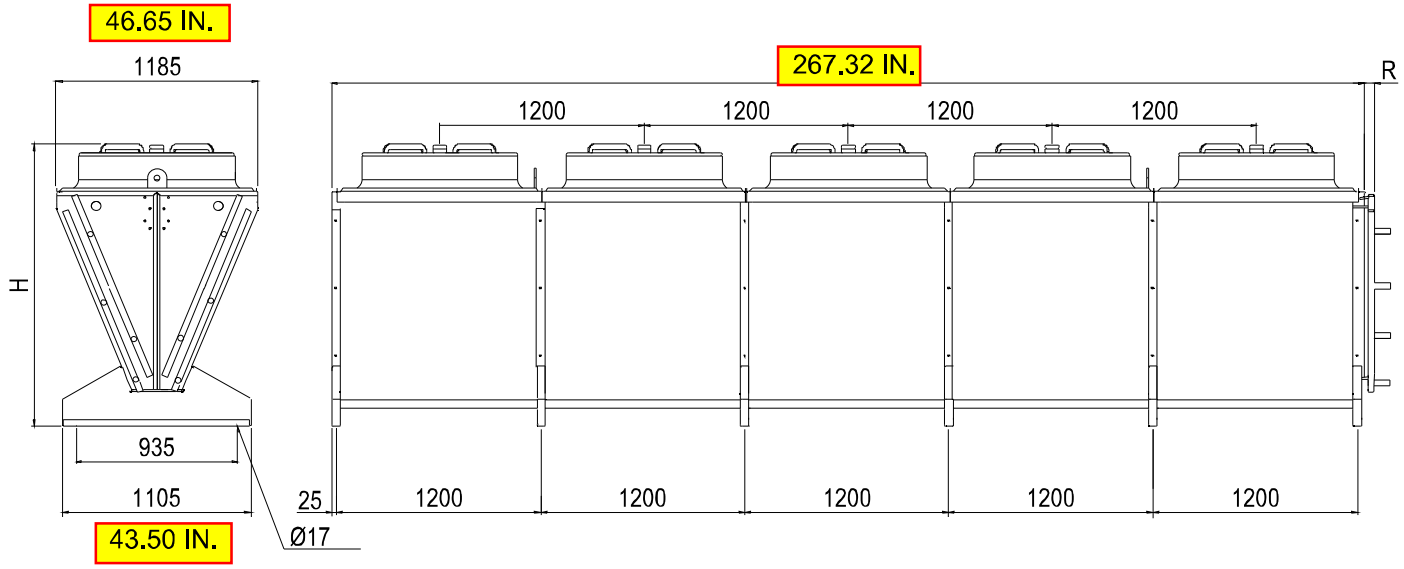
Dry cooler DCA - V 179/35(40)/L **02.08.2016**

mit Adiabatik Funktion / with adiabatic function

Technische Daten / technical data

Nennleistung / Capacity:	179 kW
Glykol AUS / glycol outlet:	40°C
Glykolkonzentration / glycol:	35(45)%
Luftvolumenstrom / air flow:	100600 m³/h
Lufteintritt / air inlet	Trocken / dry 35°C Adiabatic boost[1] 40°C / 40% RH
Drehzahl / speed:	750 1/min / rpm
Lüfteranzahl / number of fans:	5 St. / pieces
Schalldruckpegel / Noise pressure level: in einem Abstand von 10 m / at a distance of 10 m:	58 dB(A)
Farbe / casing:	RAL 7035
Leergewicht / dry weight:	1253 kg 2762 LBS.
Volumen / volume:	145.6 l
Kühlmittelanschluss / connections :	4 Losflansche DN 65/64.5 PN 10 mit Lötbördel ähnlich DIN 2642 4 lapped flanges DN 65/64.5 PN 10 with brazing neck like DIN 2642
Abmessungen / dimensions:	Siehe Abbildung / see drawing
Elektrischer Anschluss: über Pump- und Regelstation electrical connection: via pump station	460V/3Ph/60Hz UL

[1] Sprühwassereinsatz / spraying systems for Adiabatic: ca. 604 l/h bei / at 40°C40%RH



H = 1720 mm 67.72 IN. R = 85 mm 3.35 IN.

Zubehör / Accesories:

- Lamellen mit Epoxydharzbeschichtung / epoxy coated fins
- Sprühsystem mit automatischer Umschaltung / spraying systems for Adiabatic

technotrans power to transform

Service Department
technotrans america Inc.
1441 E. Business Center Drive
Mount Prospect, IL 60056

Install Conditions: US GPO

Water Cooling System: DCA-V 179 Fluid Cooler

to be provided by technotrans:

- Piping to/from fluid cooler to technotrans pump station (60 linear feet one way - 120 ft. total)
- Piping to/from pump station to water cooled peripherals
- System checkout and start-up
- Training on the operation and maintenance of the water cooling system and major components

technotrans Fluid Cooler installation recommendations:

- One penetration for all piping connections
- One penetration for all electrical connections
- Unit shall be level, for proper operation
- Mezzanine shall be structurally sound to accept the overall weight, of the unit, under normal operating conditions
- ~~Fluid penetrations to be made within a 4 foot radius of the fluid end, 24 inches from unit, either side of center~~

~~WARNING: Penetrations should not be made over actual press area.~~

NOTE: Recommendations shall be superseded by any local codes/ordinances.

technotrans DCA-V 179 Fluid Cooler penetration requirements:

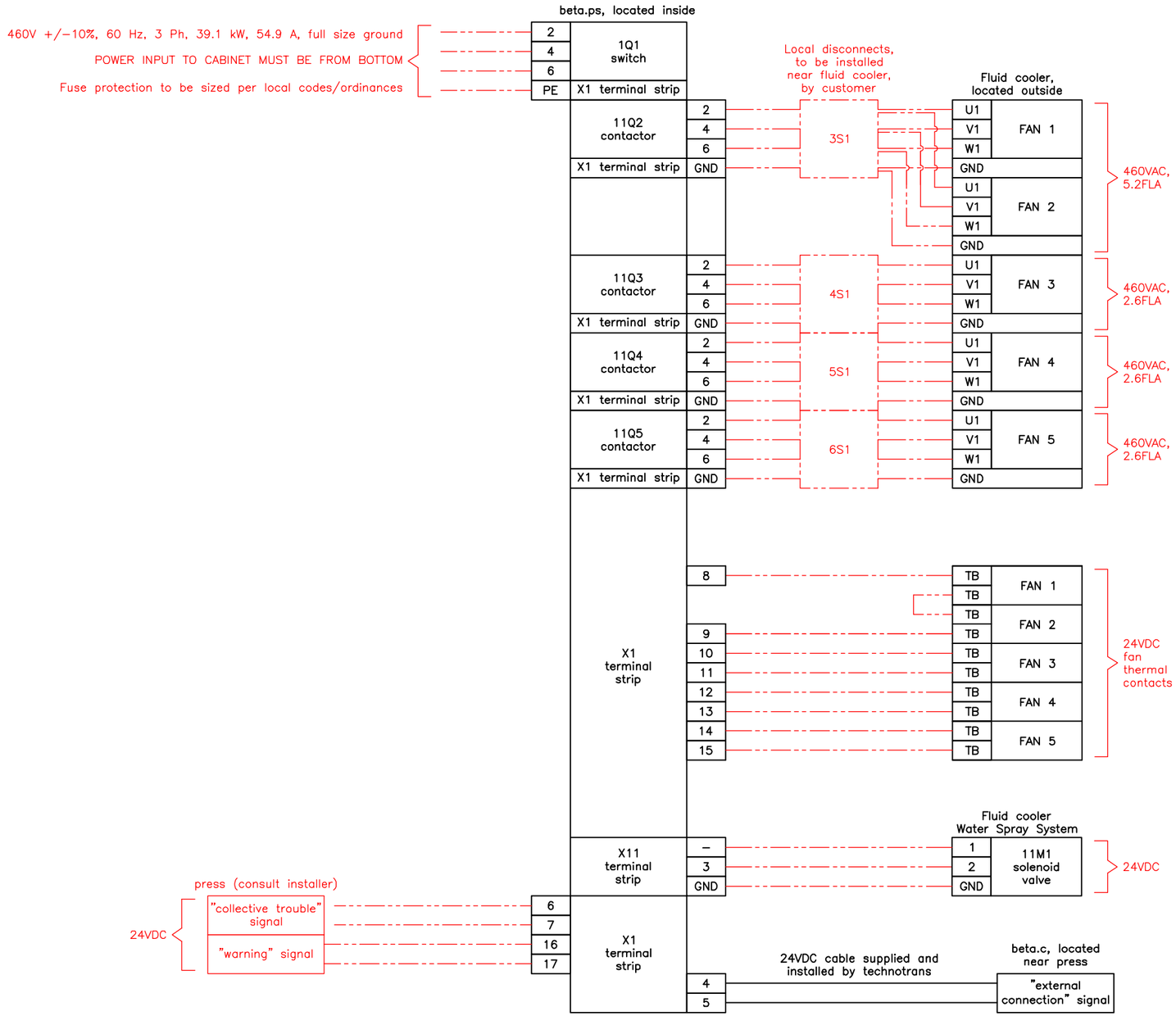
- Two openings to accommodate 3" (3 1/8" OD) copper pipes (fluid ends - in/out)
- One opening to accommodate a 3/4" (7/8" OD) copper pipe (fresh water in)
- One opening to accommodate a small conduit to run 4 x 2-wire (24VDC) for the fan thermal contacts
- One opening to accommodate a large conduit to run 4 x 3-phase + 1 ground for fan power

NOTE: Electrical contractor shall determine actual conduit size based on local codes/ordinances.

NOTE: Requirements and recommendations are to be completed/supplied by the end user and do not fall under technotrans' scope of supply

to be provided by US Government Printing Office:

- Lift/placement of fluid cooler
- Securing fluid cooler once in position
- Aerial or scissor lift, based on actual install space limits and/or height restraints
- Ladder(s) for a working height of up to (10) ten feet
- 120VAC outlet(s) for tool use
- House air for glycol fill pump
- Any/all penetrations and the resealing of said penetrations
- Transport into the building and setting down of equipment and/or materials
- Safe working environment, for any/all personnel, for the duration of the installation
- Clear/safe access to roof (inside) for pipe install, including removal/reinstall of any/all ceiling tiles
- Clear/safe access all around fluid cooler, along with a clear/safe path during winter months
- Secure area to store tools, materials, and equipment, within close proximity of installation
- Allowing adequate time, during normal working hours, to accomplish the installation
- Removal and discard of any/all packing/crating materials
- Access to Wi-Fi network



*** ALL REVISIONS MUST BE DONE ON C.A.D. ***				
REVISIONS				
SYM	DESCRIPTION	ECN	DATE	BY
~	~	~	~	~

CUSTOMER RESPONSIBILITIES SHOWN IN RED

ALL WIRING TO BETA.PS PUMP STATION MUST BE FROM BOTTOM OF CABINET AND PER LOCAL/NEC CODES/REQUIREMENTS

PRELIMINARY

beta.ps eco 2−18/80+DCA−V179

PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ORIGINATED BY technotrans america, inc. AND SHALL NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF technotrans america, inc.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
3 PLACE DEC. ± .005"
2 PLACE DEC. ± .010"
FRACTIONAL ± 1/64"
ANGLES ± 1/4°

MATERIAL .

FINISH

DRAWN	DATE
PLL	09/12/23
CHECKED ~	DATE ~
APPROVED ~	DATE ~

technotrans america, inc.
1441 BUSINESS CENTER DRIVE, MT. PROSPECT, ILLINOIS 60056

TITLE
WATER COOLING SYSTEM
WIRE PULL DIAGRAM
US GOVERNMENT PRINTING OFFICE

ORDER NO.	SIZE	DRAWING NO.	REV.
1004xx	D	US GPO wire pull	

SCALE NONE FILE US GPO wire pull SHEET 1 OF 1

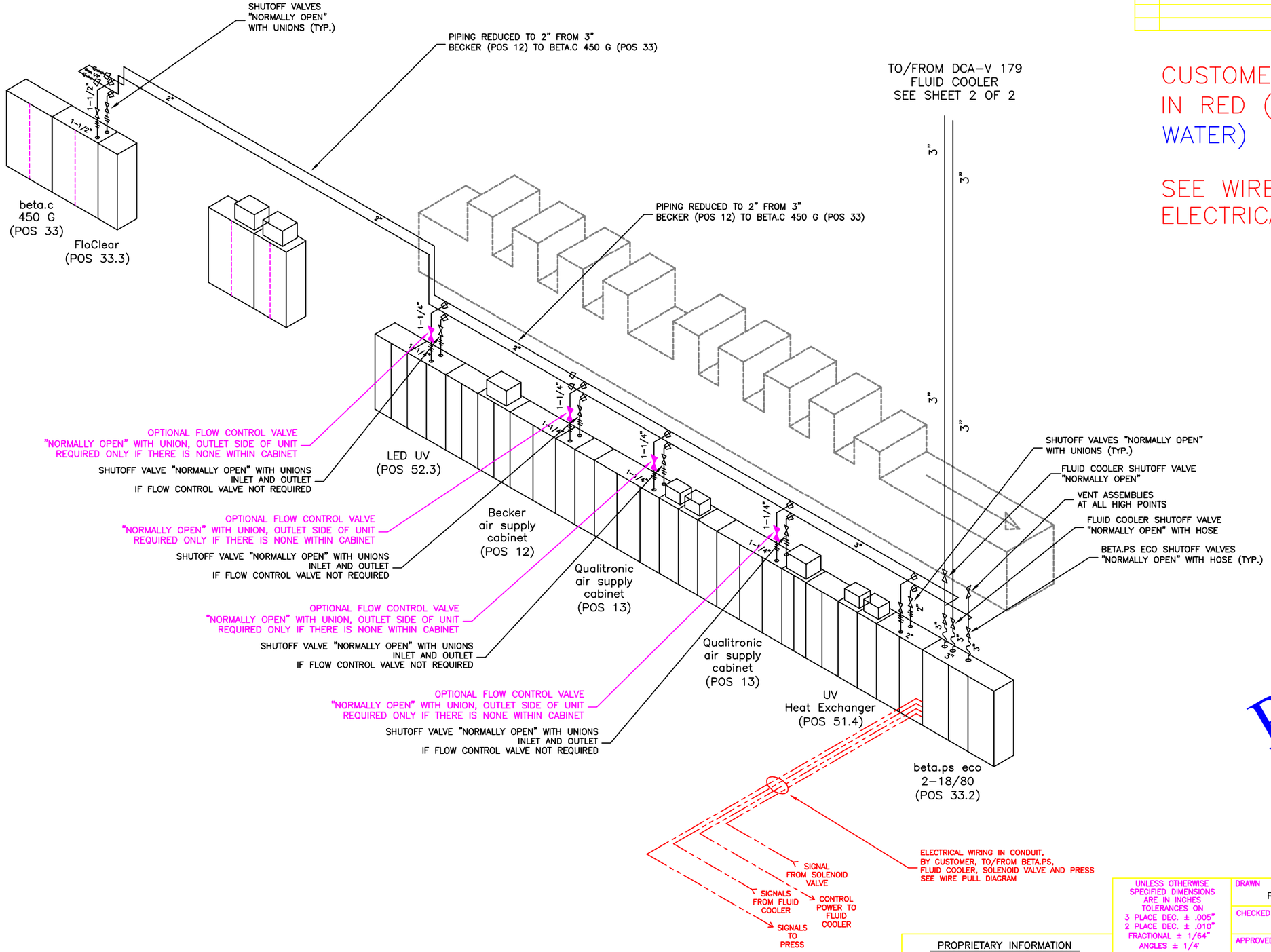
*** ALL REVISIONS MUST BE DONE ON C.A.D. ***

REVISIONS

SYM	DESCRIPTION	ECN	DATE	BY
A	PER K&B: CABINET UPDATE, PER GPO: FLUID COOLER ON MEZZANINE	N/A	10/11/23	PLL

CUSTOMER RESPONSIBILITIES SHOWN IN RED (WIRING) AND BLUE (FRESH WATER)

SEE WIRE PULL DIAGRAM FOR ELECTRICAL REQUIREMENTS



REVISED 10/11/23

RA106X-8+L ALV3

PROPRIETARY INFORMATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ORIGINATED BY technotrans america, inc. AND SHALL NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF technotrans america, inc.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
3 PLACE DEC. ± .005"
2 PLACE DEC. ± .010"
FRACTIONAL ± 1/64"
ANGLES ± 1/4'

MATERIAL .

FINISH

DRAWN	PLL	DATE 09/11/23
CHECKED	~	DATE ~
APPROVED	~	DATE ~

technotrans america, inc.
1441 BUSINESS CENTER DRIVE, MT. PROSPECT, ILLINOIS 60056

TITLE
WATER COOLING SYSTEM DIAGRAM
US GOVERNMENT PRINTING OFFICE

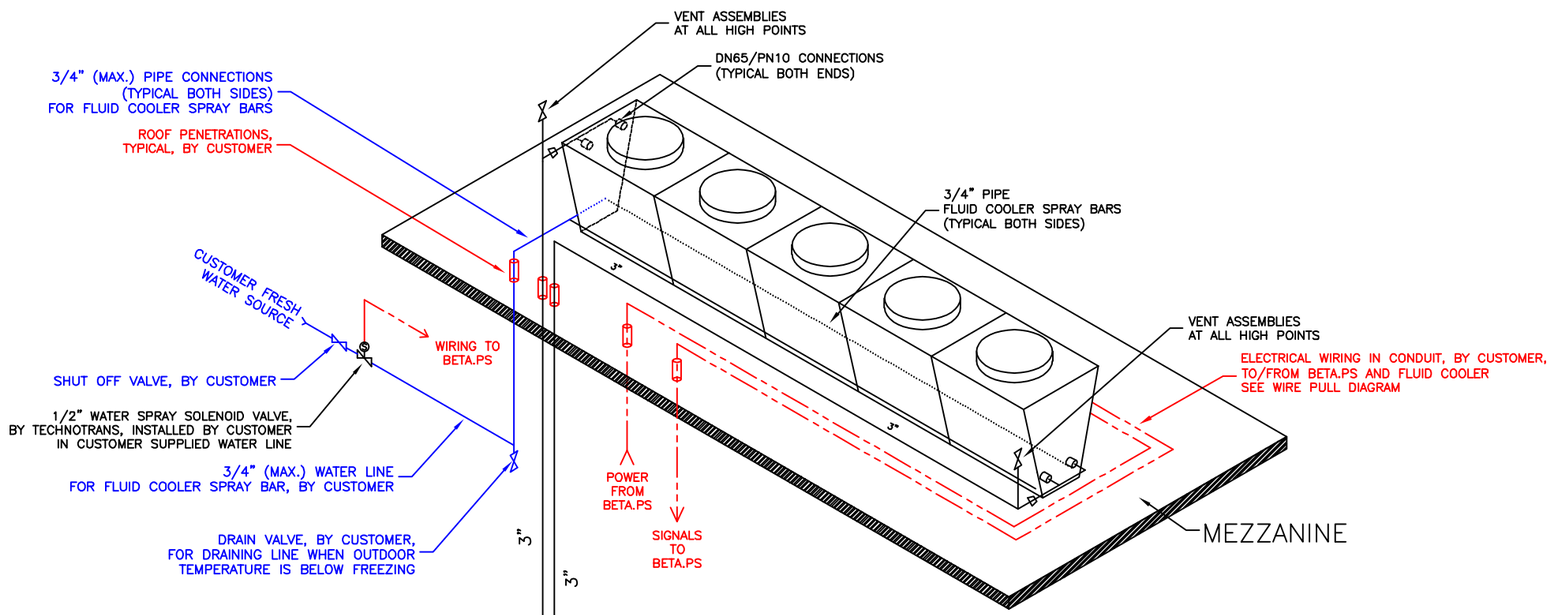
ORDER NO.	SIZE	DRAWING NO.	REV.
1004xx	D	US GPO w-c diagram	A

SCALE NONE FILE US GPO w-c diagram SHEET 1 OF 2

*** ALL REVISIONS MUST BE DONE ON C.A.D. ***				
REVISIONS				
SYM	DESCRIPTION	ECN	DATE	BY
A	PER K&B: CABINET UPDATE, PER GPO: FLUID COOLER ON MEZZANINE	N/A	10/11/23	PLL

CUSTOMER RESPONSIBILITIES SHOWN IN RED (WIRING) AND BLUE (FRESH WATER)

SEE WIRE PULL DIAGRAM FOR ELECTRICAL REQUIREMENTS



DCA–V 179/35(40)/L
Fluid Cooler
(on roof)

TO/FROM beta.ps eco
2–18/80
(POS 33.2)
SEE SHEET 1 OF 2

REVISED
10/11/23

RA106X-8+L ALV3

PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ORIGINATED BY technotrans america, inc. AND SHALL NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF technotrans america, inc.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
3 PLACE DEC. ± .005"
2 PLACE DEC. ± .010"
FRACTIONAL ± 1/64"
ANGLES ± 1/4°

MATERIAL .

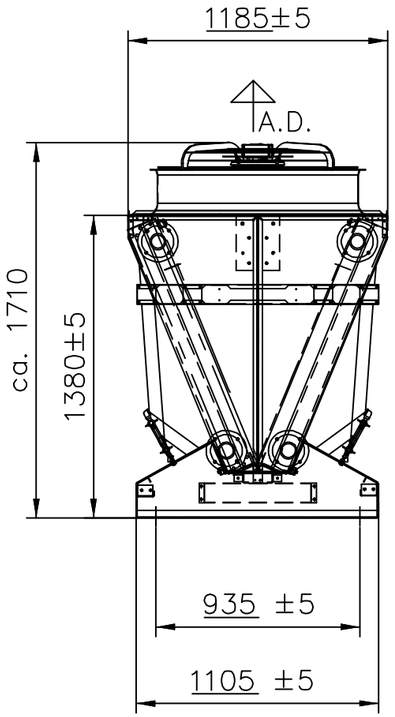
DRAWN	PLL	DATE	09/11/23
CHECKED	~	DATE	~
APPROVED	~	DATE	~
FINISH			

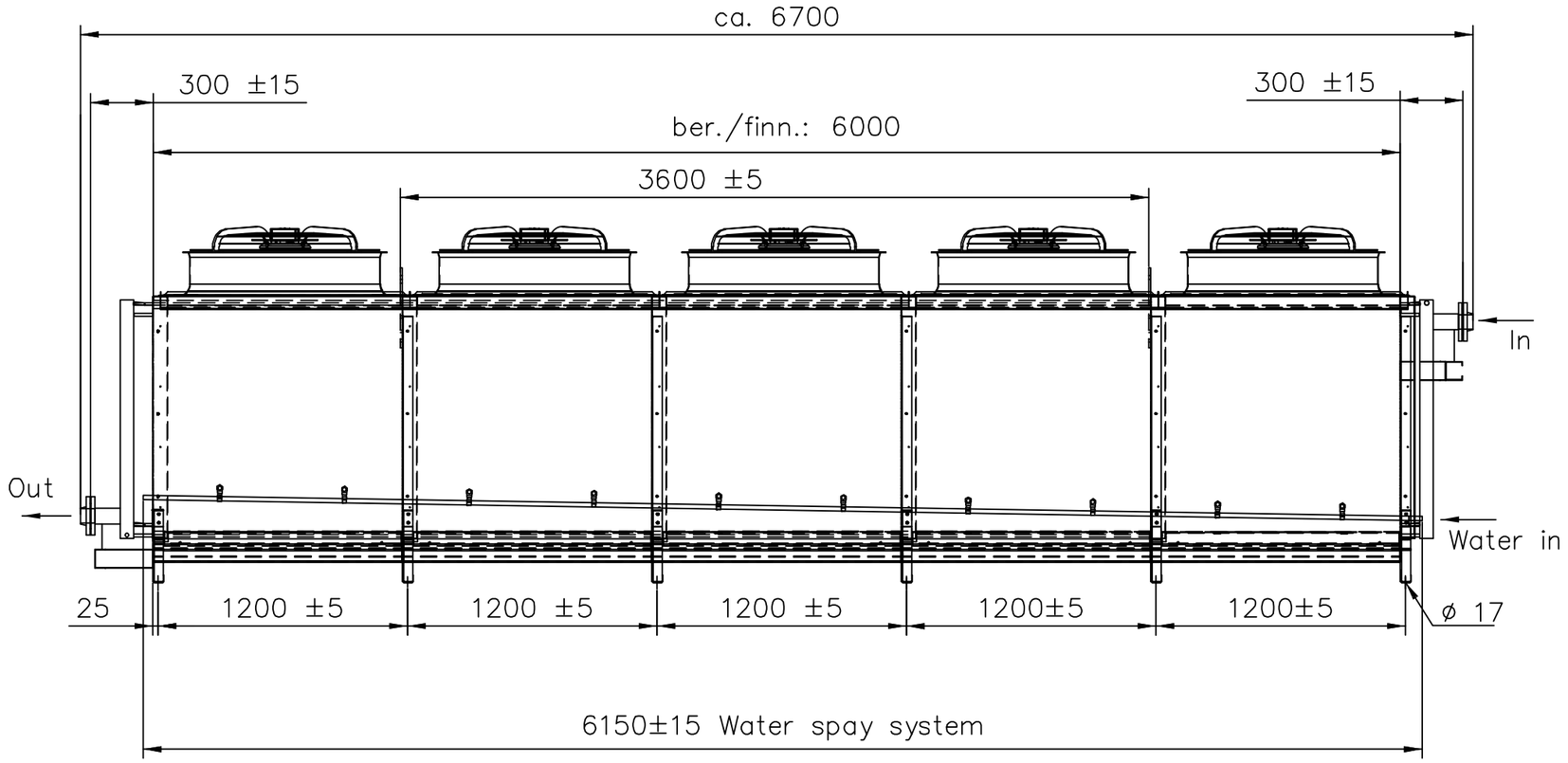
technotrans america, inc.
1441 BUSINESS CENTER DRIVE, MT. PROSPECT, ILLINOIS 60056

TITLE
WATER COOLING
SYSTEM DIAGRAM
US GOVERNMENT PRINTING OFFICE

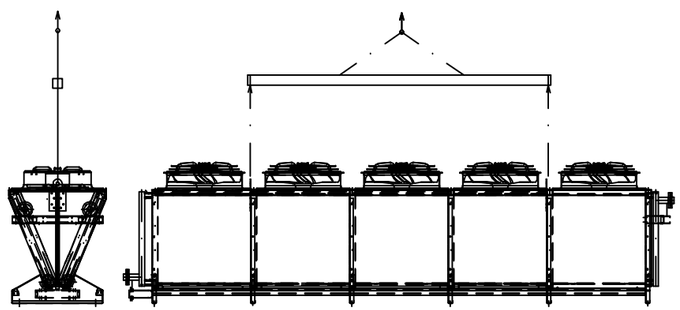
ORDER NO.	SIZE	DRAWING NO.	REV.
1004xx	D	US GPO w-c diagram	A

SCALE NONE | FILE US GPO w-c diagram | SHEET 2 OF 2





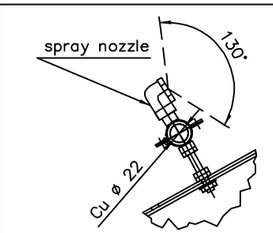
Attention:
crane transport only with lifting beam!



1:100

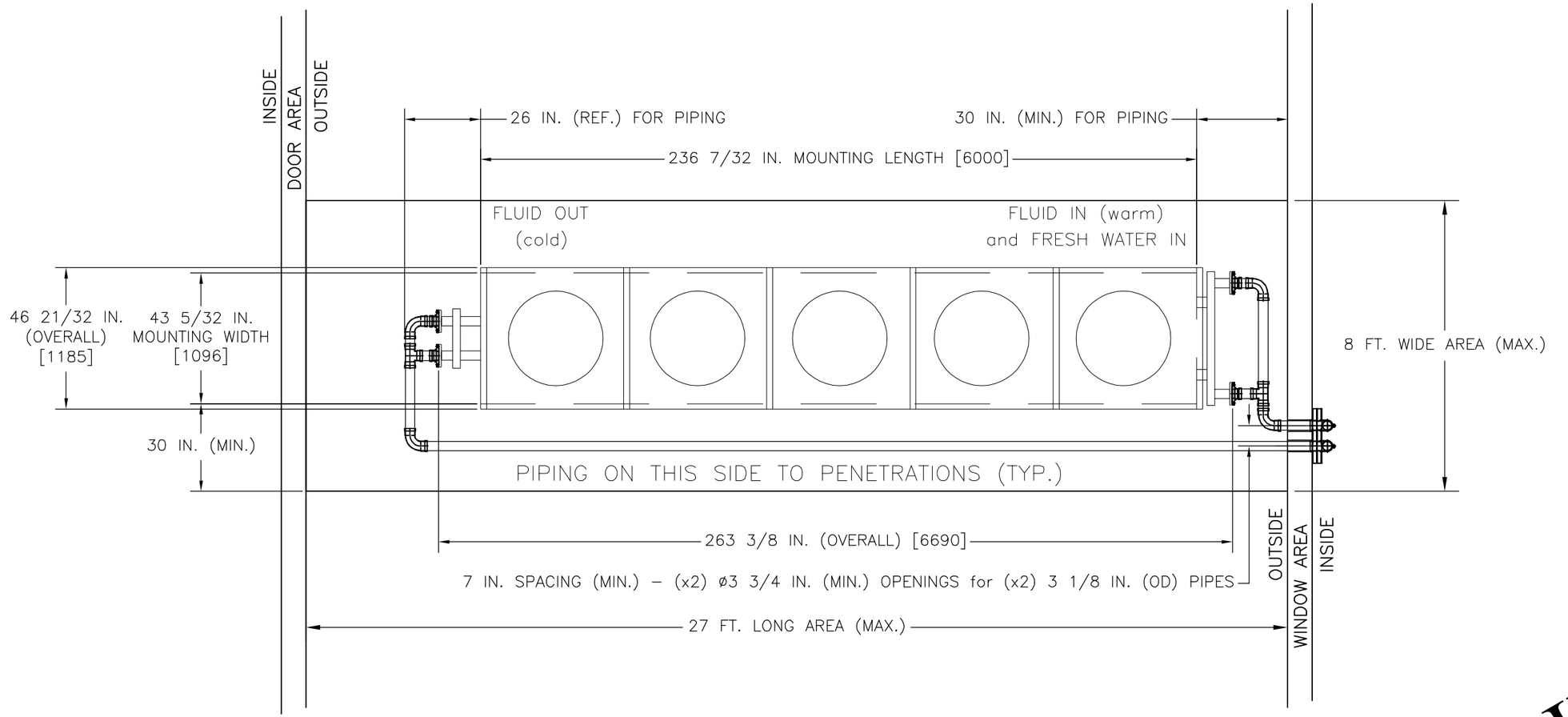
Spec. construction:

- 4 pairs of flanges DN65/64/PN10
- Epoxy coated fins
- Container packaging with wood pallet
- Water spray system with 20 x nozzle 4932



							scale	1:25	paper size DIN A3
							material		
							weight [kg]	DRY 2762 LBS. / WET 3119 LBS.	
							notice	Artikel Nr. 10069795	
							type	DCA-V 179/35(40)/L	
							name	W-Block Rückkühler	
							Baan-No.		
	revision			date	name		drawing number	400-0000660602	index
			date	name					
	drawn:		11.05.2017	Igortva			customer	Technotrans AG	
	certified		16.05.2017	ogergely			project/ quantity	101049026	1
							order/ postion	FV1051466	30

*** ALL REVISIONS MUST BE DONE ON C.A.D. ***				
REVISIONS				
SYM	DESCRIPTION	ECN	DATE	BY



TECHNOTRANS DCA–V 179 FLUID COOLER
DRY WEIGHT: 2762 LBS. (EST.)
OPERATING WEIGHT: 3119 LBS. (EST.)

SECURED TO A STRUCTURALLY SOUND, STABLE AND LEVEL CONCRETE PAD
PAD BY CUSTOMER WITH CONSTRUCTION DETAILS TO BE DETERMINED BY CUSTOMER

PRELIMINARY

PROPRIETARY INFORMATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ORIGINATED BY technotrans america, inc. AND SHALL NOT BE DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF technotrans america, inc.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
3 PLACE DEC. ± .005"
2 PLACE DEC. ± .010"
FRACTIONAL ± 1/64"
ANGLES ± 1/4'

MATERIAL
.

DRAWN	PLL	DATE	10/09/23
CHECKED	~	DATE	~
APPROVED	~	DATE	~
FINISH			

technotrans america, inc.
1441 BUSINESS CENTER DRIVE, MT. PROSPECT, ILLINOIS 60056

TITLE
FLUID COOLER
LAYOUT DETAILS
US GOVERNMENT PRINTING OFFICE

ORDER NO.	SIZE	DRAWING NO.	REV.
1004xx	D	US GPO FC layout	
SCALE FULL	FILE US GPO FC layout	SHEET 1 OF 1	