



COOLING TOWERS





**with[®]
imas
you have the
control...**

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About Us

As Imas, we offer innovative products and solutions in the areas of cooling, air conditioning and ventilation for commercial, industrial, institutional buildings and residences. Our expertise in air conditioning combines technology and engineering with our experience and global vision; we increase the quality of the product in the areas where our customers work & live and the product in the production process.

During our half century of production and marketing experience in the air conditioning sector, we have been the pioneer and implementer of many innovative ideas. In our modern factory in Izmir, air and water cooled split and package type air conditioners, radial-axial fan, open-closed type water cooling tower, fancoil units, special type air conditioning systems, precision controlled air conditioners, water chillers, unit heaters, power plants and ventilation cells are produced.

In the air conditioning sector, we establish international partnerships in order to fully meet the expectations and needs of our customers. With the world brands we distribute, Nicotra Gebhardt and Bluebox, we keep step with the changing necessity of the era and we contribute directly to the progress of our customers with innovative and technological products.

Imas, using the latest technologies around the world, takes our services to the highest level; We continue to grow with our principles targeting quality, stability and success.

Drift Eliminators

Recirculation water drift loss can be reduced up to %0.01 with PVC drift eliminators.

Water Distribution System

Optimum water distribution with PP spray nozzles and PVC collector and pipes.

Tower Fill

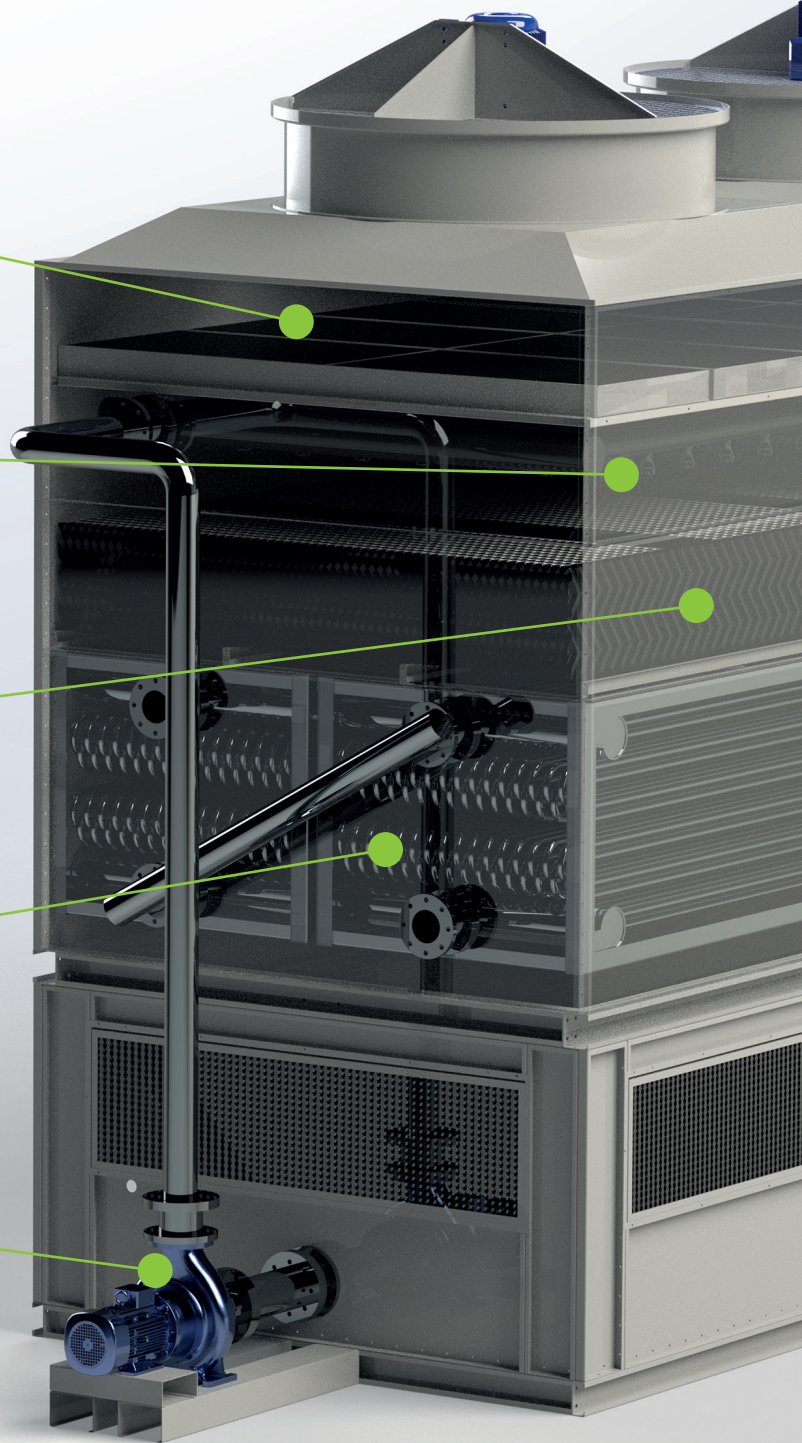
Maximum heat transfer with PVC fill material, PP Bigudi or PP Rising ring.

Heat Exchanger

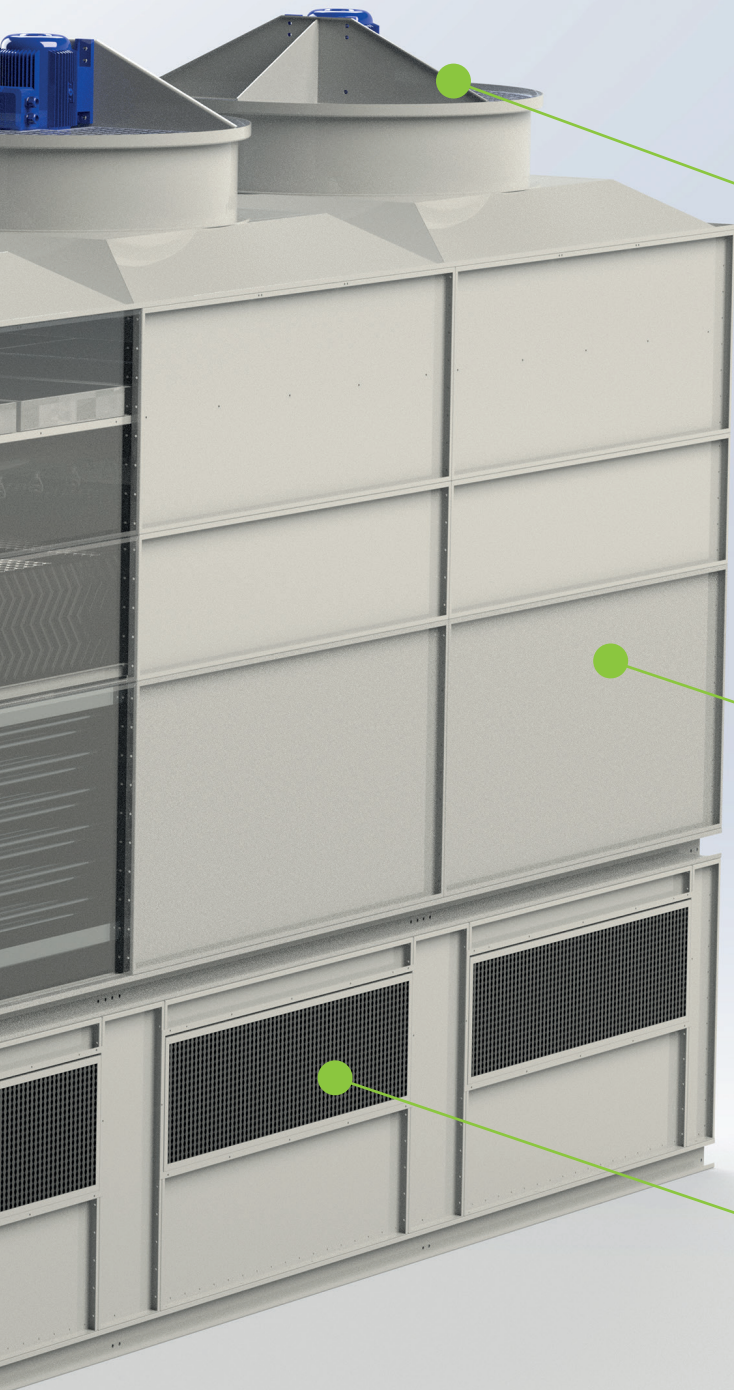
High heat transfer with galvanised steel or copper pipe options.

Pump

High efficiency centrifugal pumps.



Maintenance Door: Easy intervention ability.



Motor and Fan Group

Direct coupled or belt-gear drive fans with IP-56 motors having F isolation and IE2 or IE3 energy efficiency.

Tower Casing

High maintenance and durable design with 275 gr/m², 600 gr/m² electrostatic powder coated galvanised steel or AISI 304, AISI 316 quality stainless steel options.

Air Inlet Louver

Air inlet louvers are designed to prevent any light source from tower basin.

Optional Equipments:

*Water Basin Freez Protection, Electrical Panel, Automation, Variable Frequency Driver, Vibration Absorbing Rubber Wedges, Anti Vibration Switch, Temperature Sensor, Automatic Water Level Sensor, Water Filtration System, Service Ladder.



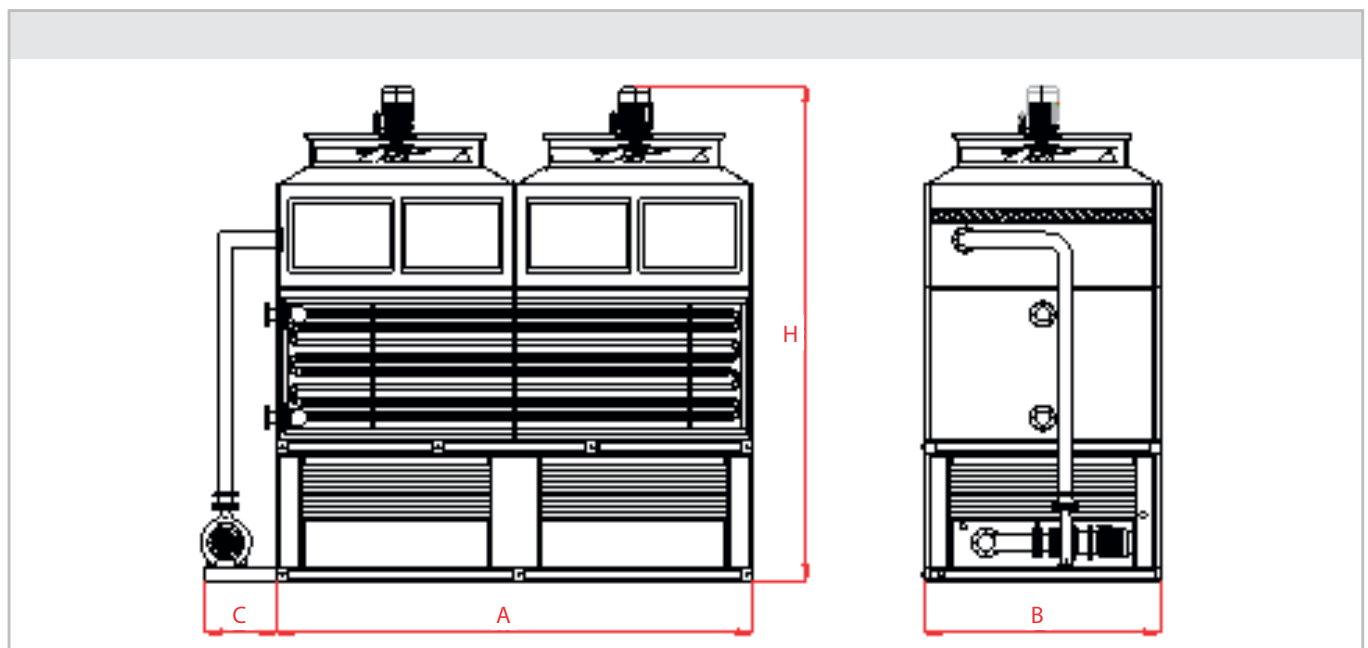
CLOSED CIRCUIT COOLING TOWERS





ISK-TAK

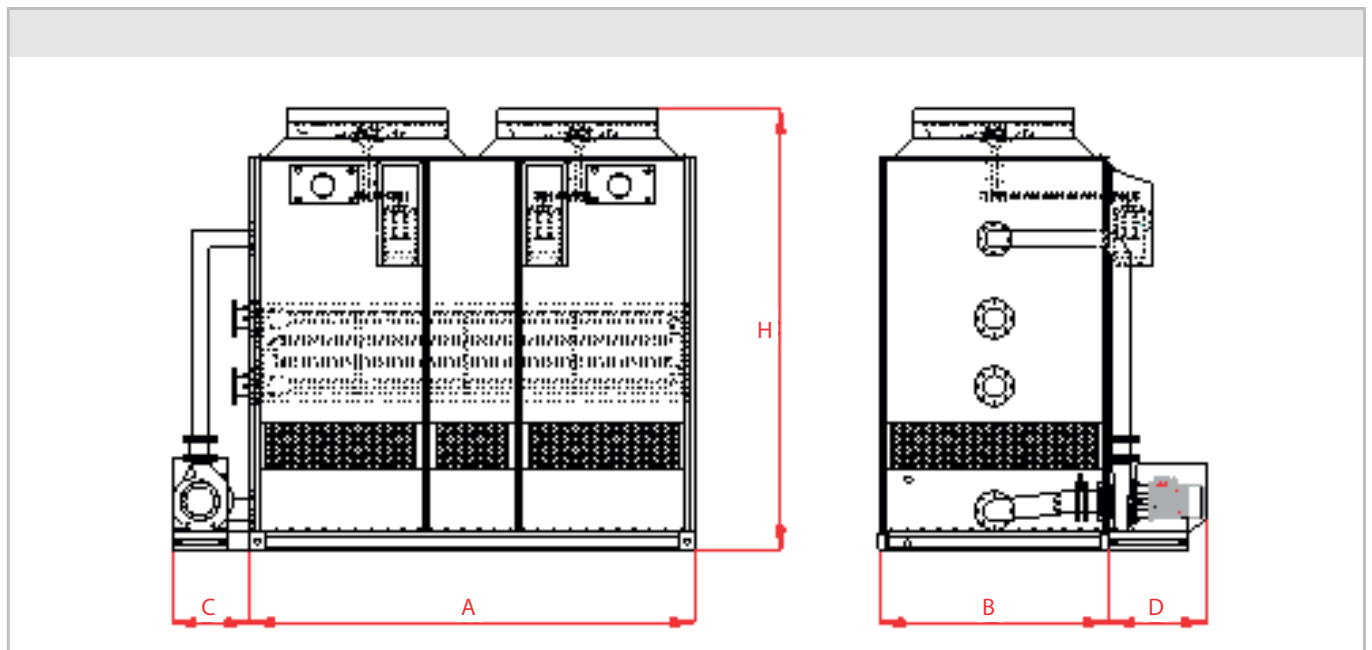
Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	Pump Motor Power (kW)	A (mm)	B (mm)	C (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK-TAK -2020.6-1	40	1	7,5	49000	2,2	2000	2000	500	4250	2620	4910	3"
ISK-TAK -2020.8-1	48	1	7,5	49000	2,2	2000	2000	500	4500	2920	5310	3"
ISK-TAK -2020.10-1	56	1	11	49000	2,2	2000	2000	500	4750	3270	5760	4"
ISK-TAK -2020.6-2	88	2	2x7,5	98000	5,5	4000	2000	700	4250	5090	9700	2x3"
ISK-TAK -2020.8-2	100	2	2x7,5	98000	5,5	4000	2000	700	4500	5690	10460	2x3"
ISK-TAK -2020.10-2	114	2	2x11	98000	5,5	4000	2000	700	4750	6290	11250	2x4"
ISK-TAK -2020.6-3	130	3	3x7,5	147000	11,0	6000	2000	1200	4250	7780	14460	3x3"
ISK-TAK -2020.8-3	152	3	3x7,5	147000	11,0	6000	2000	1200	4500	8780	15930	3x3"
ISK-TAK -2020.10-3	172	3	3x11	147000	11,0	6000	2000	1200	4750	9780	17230	3x4"
ISK-TAK -2323.6-1	48	1	7,5	59600	3,0	2300	2300	500	4250	3130	6155	3"
ISK-TAK -2323.8-1	58	1	11	119200	3,0	2300	2300	500	4500	3430	6605	4"
ISK-TAK -2323.10-1	66	1	11	178800	3,0	2300	2300	500	4750	3980	7265	4"
ISK-TAK -2323.6-2	104	2	2x7,5	119200	7,5	4600	2300	700	4250	6010	12050	2x3"
ISK-TAK -2323.8-2	126	2	2x11	119200	7,5	4600	2300	700	4500	6810	13110	2x4"
ISK-TAK -2323.10-2	136	2	2x11	119200	7,5	4600	2300	700	4750	7710	14280	2x4"
ISK-TAK -2323.6-3	164	3	3x7,5	178800	11,0	6900	2300	1200	4250	9339	18405	3x3"
ISK-TAK -2323.8-3	196	3	3x11	178800	11,0	6900	2300	1200	4500	10480	19995	3x4"
ISK-TAK -2323.10-3	220	3	3x11	178800	11,0	6900	2300	1200	4750	11880	21735	3x4"





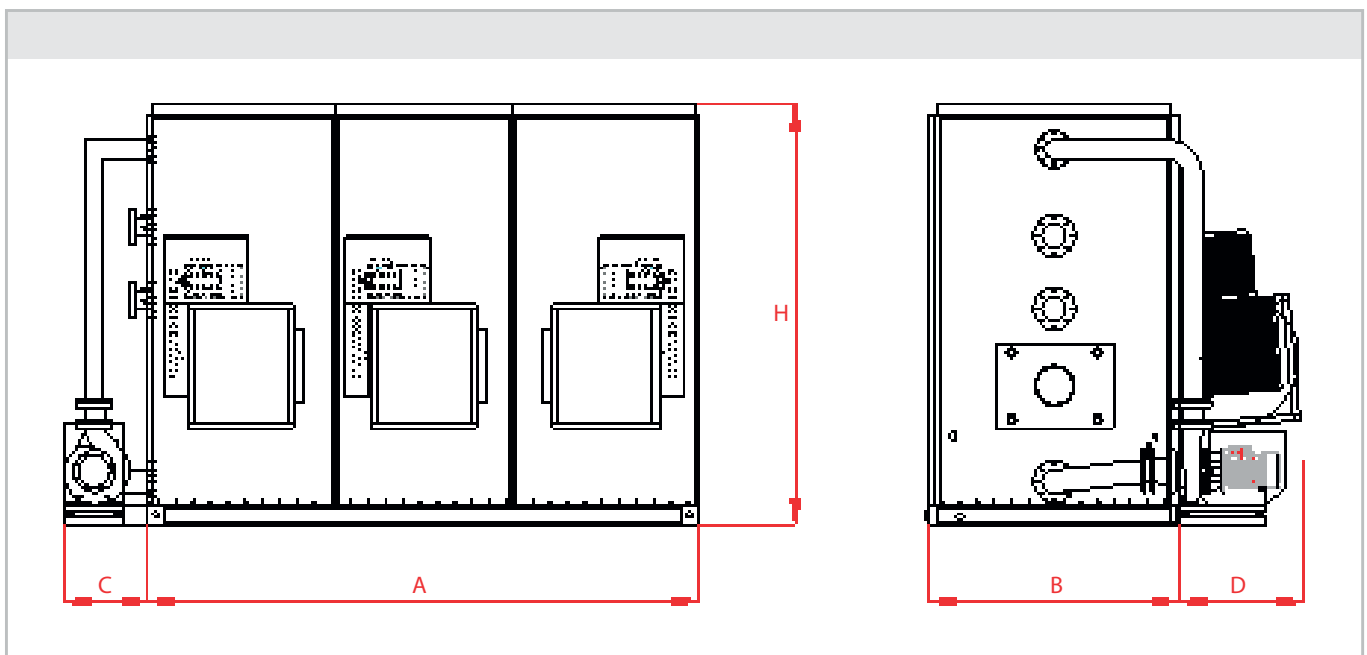
ISK-AK

Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	Pump Motor Power (kW)	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK-AK-1	11	1	3	20000	1x1,1	1090	1470	500	780	2940	710	1175	21/2"
ISK-AK-2	20	1	4	28000	1x1,5	1770	1470	500	780	2940	1025	1850	21/2"
ISK-AK-3	30	2	2x3	40000	1x2,2	2170	1470	500	780	2940	1175	2150	3"
ISK-AK-4	41	2	2x4	52000	1x3	2850	1470	500	780	2940	1400	2850	4"
ISK-AK-5	47	2	2x4	56000	1x3	3250	1470	600	780	2940	1575	3275	4"
ISK-AK-6	56	3	3x3	66000	1x4	3930	1470	600	780	2940	1875	3800	4"
ISK-AK-7	64	3	3x4	75000	1x5,5	4330	1470	700	780	2940	2200	4250	4"
ISK-AK-8	72	3	3x4	84000	1x7,5	5010	1470	700	780	2940	2450	4500	5"
ISK-AK-9	78	4	4x3	88000	1x7,5	5410	1470	800	780	2940	2600	5200	5"
ISK-AK-10	96	4	4x4	112000	1x11	6490	1470	800	780	2940	3275	6100	5"





Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	Pump Motor Power (kW)	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK-RK-1	11	1	5,5	18500	1x1,1	1090	1470	500	780	2510	710	1175	2 1/2"
ISK-RK-2	20	2	2x4	33000	1x1,5	1770	1470	500	780	2510	1025	1850	2 1/2"
ISK-RK-3	30	2	2x5,5	37000	1x2,2	2170	1470	500	780	2510	1175	2150	3"
ISK-RK-4	41	3	3x4	51000	1x3	2850	1470	500	780	2510	1400	2850	4"
ISK-RK-5	47	3	3x5,5	58500	1x3	3250	1470	600	780	2510	1575	3275	4"
ISK-RK-6	56	4	4x4	66000	1x4	3930	1470	600	780	2510	1875	3800	4"
ISK-RK-7	64	4	4x5,5	78000	1x5,5	4330	1470	700	780	2510	2200	4250	4"
ISK-RK-8	72	5	5x4	85000	1x7,5	5010	1470	700	780	2510	2450	4500	5"
ISK-RK-9	78	5	5x5,5	97500	1x7,5	5410	1470	800	780	2510	2600	5200	5"
ISK-RK-10	96	6	6x5,5	117000	1x11	6490	1470	800	780	2510	3275	6100	5"



OPEN CIRCUIT COOLING TOWERS

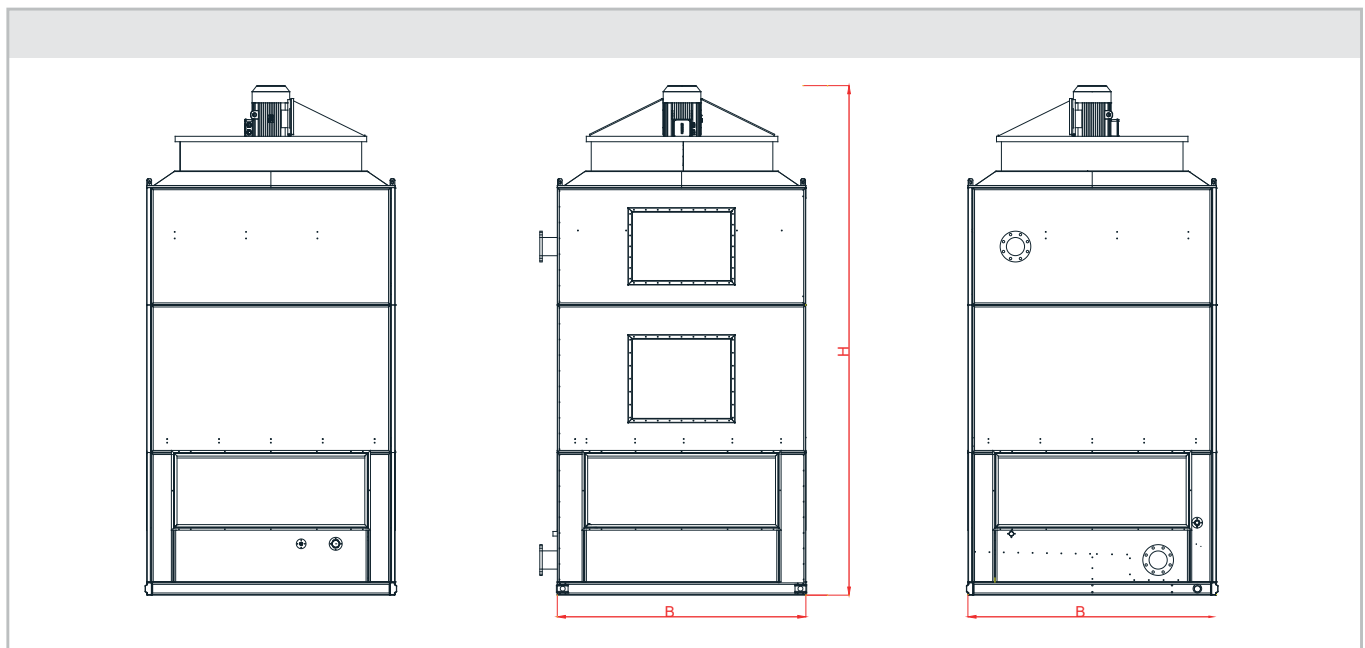




ISK-TA



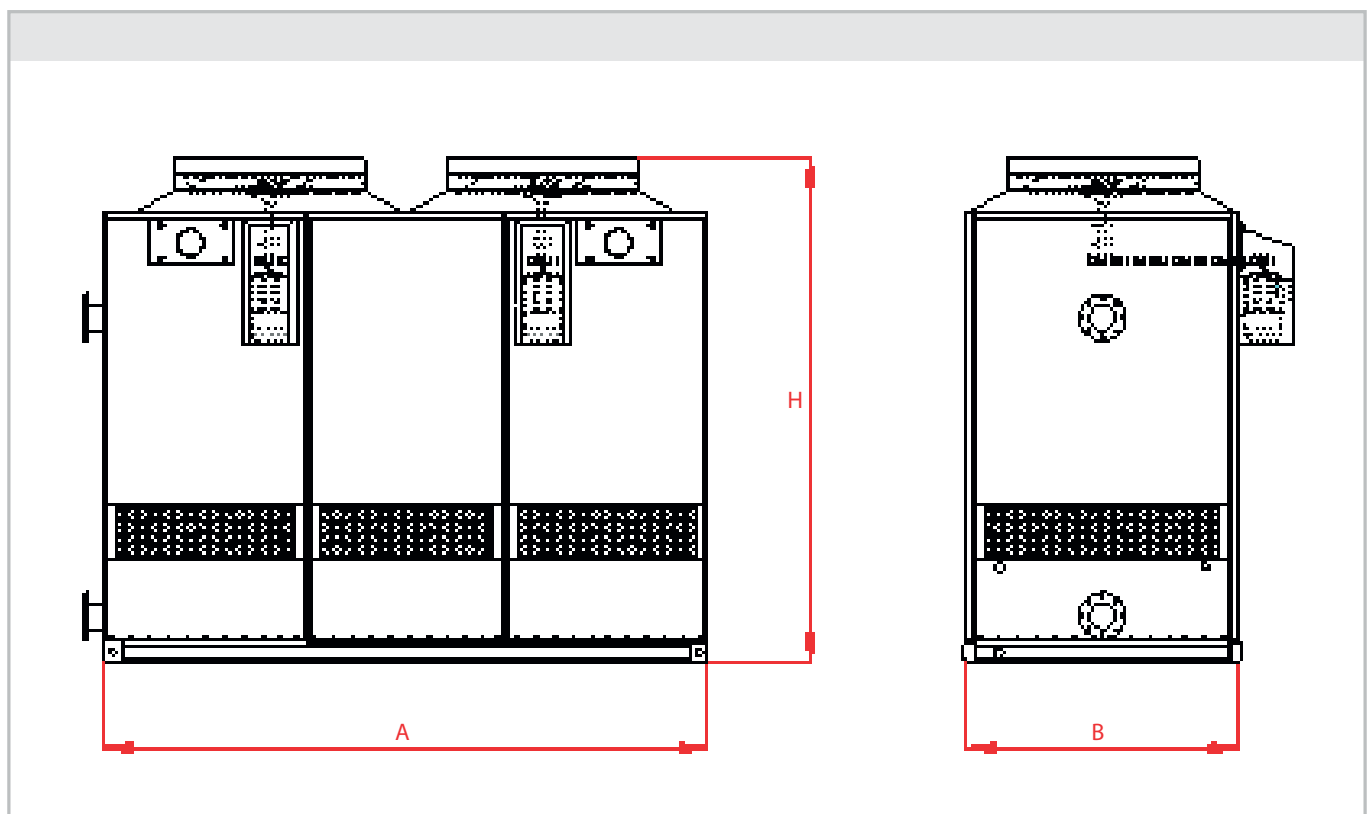
	Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	A (mm)	B (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK-TA-1818	ISK-TA-1818-1	78	1	4	35100	1800	1800	4600	1120	2750	4"
	ISK-TA-1818-2	155	2	2X4	70200	3600	1800	4600	2240	5500	6"
	ISK-TA-1818-3	235	3	3X4	105300	5400	1800	4600	3360	8250	6"
	ISK-TA-1818-4	310	4	4X4	140400	7200	1800	4600	4480	11000	8"
	ISK-TA-1818-5	390	5	5X4	175500	9000	1800	4600	5600	13700	8"
ISK-TA-2020	ISK-TA-2020-1	110	1	5,5	49000	2000	2000	4600	1220	3250	4"
	ISK-TA-2020-2	220	2	2X5,5	98000	4000	2000	4600	2240	6450	6"
	ISK-TA-2020-3	325	3	3X5,5	147000	6000	2000	4600	3660	9700	6"
	ISK-TA-2020-4	435	4	4X5,5	196000	8000	2000	4600	4880	12900	8"
	ISK-TA-2020-5	545	5	5X5,5	245000	10000	2000	4600	6100	16150	8"
ISK-TA-2323	ISK-TA-2323-1	132	1	7,5	59600	2300	2300	4600	1400	4050	4"
	ISK-TA-2323-2	265	2	2X7,5	119200	4600	2300	4600	2800	8100	6"
	ISK-TA-2323-3	400	3	3X7,5	178800	6900	2300	4600	4200	12150	6"
	ISK-TA-2323-4	530	4	4X7,5	238400	9200	2300	4600	5600	16200	8"
	ISK-TA-2323-5	660	5	5X7,5	298000	11500	2300	4600	7000	20250	8"





ISK-A

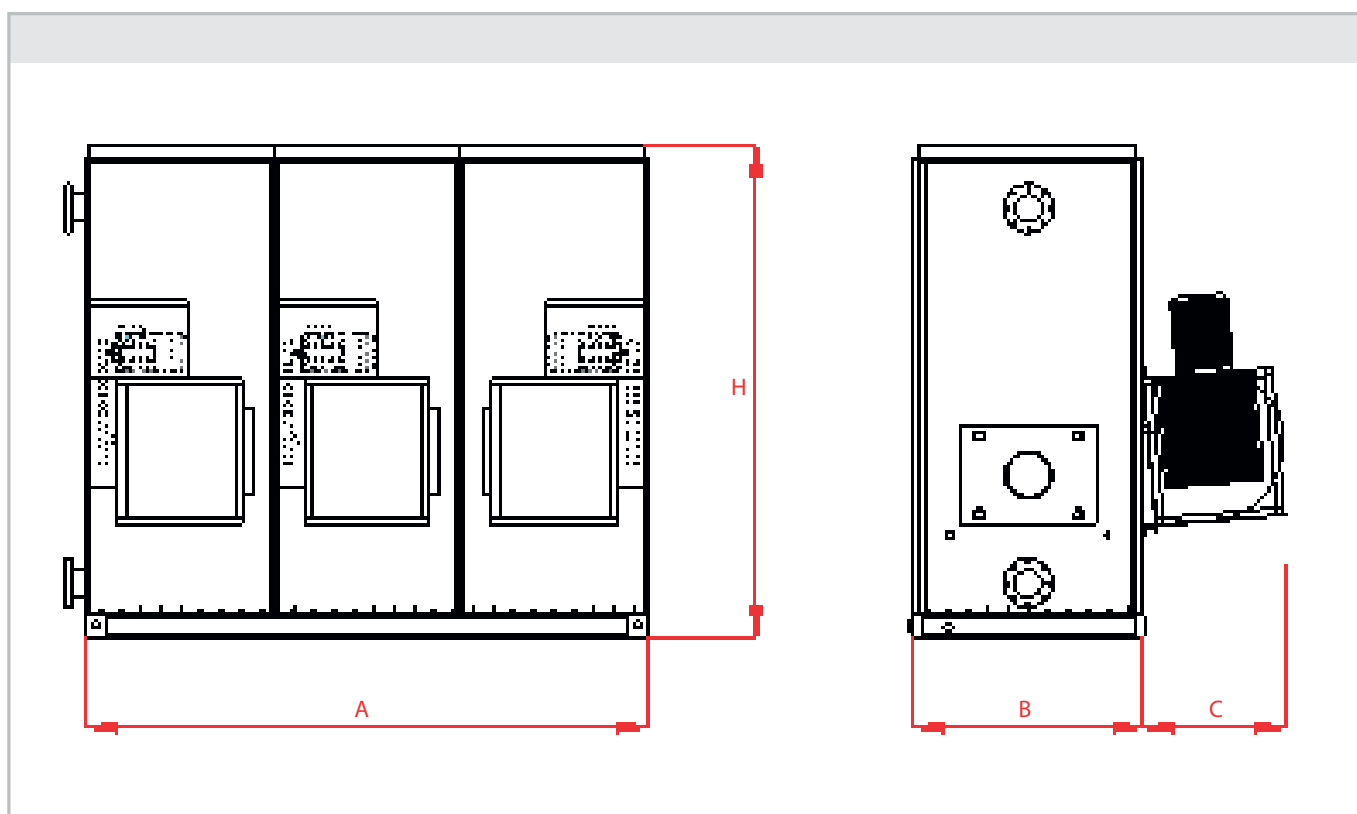
Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	A (mm)	B (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK/A-1	44	1	3	20000	1090	1470	2940	340	723	3"
ISK/A-2	55	1	4	25000	1400	1470	2940	434	1012	3"
ISK/A-3	62	1	4	28000	1750	1470	2940	527	1335	4"
ISK/A-4	89	2	2X3	40000	2190	1470	2940	629	1632	5"
ISK/A-5	98	2	2X3	44000	2700	1470	2940	731	1964	5"
ISK/A-6	124	2	2X4	56000	3250	1470	2940	901	2346	5"
ISK/A-7	133	3	3X3	60000	3600	1470	2940	961	2618	5"
ISK/A-8	147	3	3X3	66000	4150	1470	2940	1071	2958	6"
ISK/A-9	170	3	3X4	75000	4375	1470	2940	1258	3341	6"
ISK/A-10	200	4	4X3	88000	5400	1470	2940	1556	4063	6"





ISK-R

Model	Nominal Water Flow Rate m ³ /h	Fan Number	Fan Motor Power (kW)	Air Flow Rate m ³ /h	A (mm)	B (mm)	C (mm)	H (mm)	Net (kg)	Operation (kg)	Water Inlet/Outlet Connections (inch)
ISK/R-1	31	1	3	14000	1090	1170	730	2510	400	850	3"
ISK/R-2	55	2	2X2,2	25000	1770	1170	730	2510	510	1190	3"
ISK/R-3	62	2	2X3	28000	2170	1170	730	2510	620	1570	4"
ISK/R-4	93	3	3X3	42000	2850	1170	730	2510	740	1920	5"
ISK/R-5	98	3	2X3+4	44000	3250	1170	730	2510	860	2310	5"
ISK/R-6	124	4	4X3	56000	3930	1170	730	2510	1060	2760	5"
ISK/R-7	133	4	4X4	60000	4330	1170	730	2510	1130	3080	5"
ISK/R-8	156	5	5X3	70000	5010	1170	730	2510	1260	3480	6"
ISK/R-9	170	5	4X3+4	76000	5410	1170	730	2510	1480	3930	6"
ISK/R-10	200	6	6X3	90000	6490	1170	730	2510	1830	4780	6"





WET BULB TEMPERATURE BY PROVINCE

PROVINCE	Summer Dry Bulb Temperature (°C)	Summer Wet Bulb Temperature (°C)	Winter Temperature (°C)
Adana	38	26	0
Adıyaman	38	22	-9
Afyon	34	21	-12
Ağrı	34	25	-24
Aksaray	34	20	-9
Amasya	31	21	-12
Ankara	35	21	-24
Antalya	39	28	-15
Ardahan	27	18	-12
Artvin	30	26	-12
Aydın	39	26	3
Balıkesir	38	27	-21
Bandırma	34	25	-9
Bartın	31	21	-3
Batman	40	23	-3
Bayburt	33	23	-6
Bilecik	34	23	-3
Bingöl	33	21	-9
Bitlis	34	22	-15
Bolu	34	24	-15
Burdur	36	21	-9
Bursa	37	25	-6
Çanakkale	34	25	-3
Çankırı	34	26	-15
Çorum	29	19	-15
Denizli	38	24	-6
Diyarbakır	42	23	-9
Edirne	36	25	-9
Elazığ	38	21	-12
Erzincan	36	22	-18
Erzurum	31	23	-21
Eskişehir	34	24	-12
Gaziantep	39	23	-9
Giresun	29	25	-3
Gümüşhane	33	23	-12
Hakkari	34	20	-24
Hatay (Antakya)	37	28	0
Hatay (İskenderun)	37	29	3
Iğdır	36	25	-18
Isparta	34	21	-9
İçel (Mersin)	35	29	3
İçel (Tarsus)	36	28	0

PROVINCE	Summer Dry Bulb Temperature (°C)	Summer Wet Bulb Temperature (°C)	Winter Temperature (°C)
İstanbul	33	24	-3
İzmir	37	25	0
Karabük	32	25	-12
Karaman	36	21	-12
Kars	30	20	-27
Kastamonu	34	22	-12
Kayseri	36	23	-15
Kilis	39	23	-6
Kırıkkale	35	21	-12
Kırklareli	35	25	-9
Kırşehir	35	21	-12
Kocaeli (İzmit)	36	25	-3
Konya	34	22	-12
Kütahya	33	21	-12
Malatya	38	21	-12
Manisa	40	26	-3
Kahramanmaraş	36	22	-9
Mardin	38	23	-6
Muğla	37	22	-3
Muş	32	20	-18
Neşehir	28	17	-15
Niğde	34	20	-15
Ordu	30	22	-3
Osmaniye	38	26	-3
Rize	30	26	-3
Sakarya (Adapazarı)	35	25	-3
Samsun	32	25	-3
Siirt	40	23	-9
Sinop	30	25	-3
Sivas	33	20	-18
Şanlıurfa	43	24	-6
Şırnak	34	20	-6
Tekirdağ	33	25	-6
Tokat	29	20	-15
Trabzon	31	25	-3
Tunceli	37	22	-18
Uşak	35	22	-9
Van	33	21	-15
Yalova	33	24	-3
Yozgat	32	20	-15
Zonguldak	32	25	-3



**Sustainable
performance
in production
and efficiency
with Imas**



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