

Automatic Coolant Filtration System

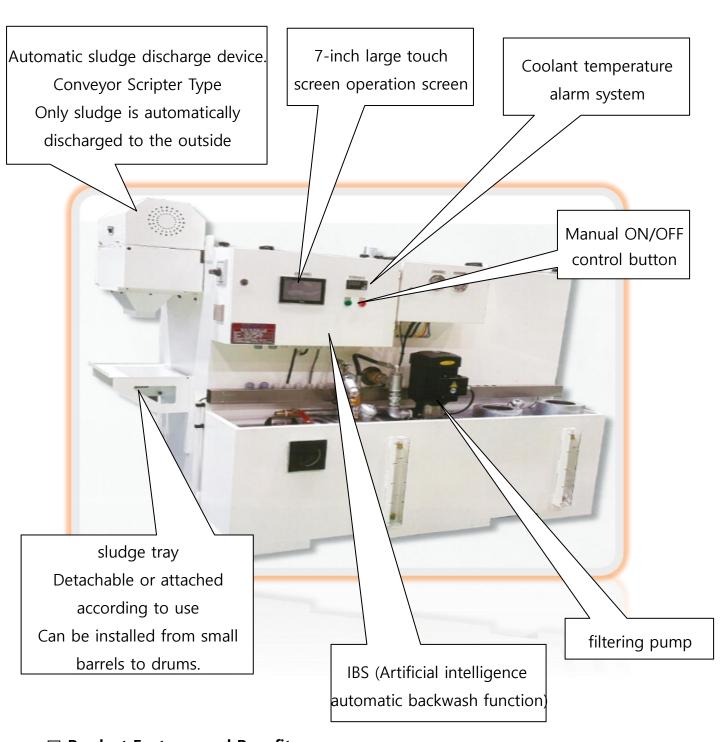


It is an ultra-fine filter device that filters 1 ~ 3 Micron particles.

Can be used in grinding, discharging, cutting equipment, etc.

State-of-the-art filtration devices.

CENTRAL SYSTEM 세트립시스템



Product Features and Benefits

- 1. Automatic discharge of sludge to the outside
- 2. Adoption of large touch screen makes operation easy and operation status can be seen at a glance
- 3. Automatically turns on/off the equipment. (automatic execution time setting)
- 4. Automatic filter cleaning by artificial intelligence (IBS)
- 5. Coolant temperature alarm function (temperature setting)
- 6. Checks the filtering operation status and informs the user

Features and Functions

- Excellent filtering ability 1 Micron
- Reducing the amount of cutting oil and extending the life of the grinding wheel
- Improved roughness and quality of workpieces
- Automatic discharge of only sludge to the outside (conveyor type)
- There is a water-insoluble (for oil) device and a water-soluble (for water) filtering device.
- Automatically cleans the filter with artificial intelligence regardless of the set time (IBS)
- Checks the operation status by itself and informs whether it is normal or not
- Automatically turns on/off the equipment. (automatic execution time setting)
- Cutting oil temperature alarm function (temperature setting)
- Adoption of large touch screen makes operation easy and operation status can be seen at a glance
- Minimize sludge mixed with state-of-the-art tank structure
- Prompt A/S and follow-up management
- Possible to make orders optimized for user needs
- Eco-friendly energy saving solution
- Purely domestically produced filter (fast response according to work environment)



Composition

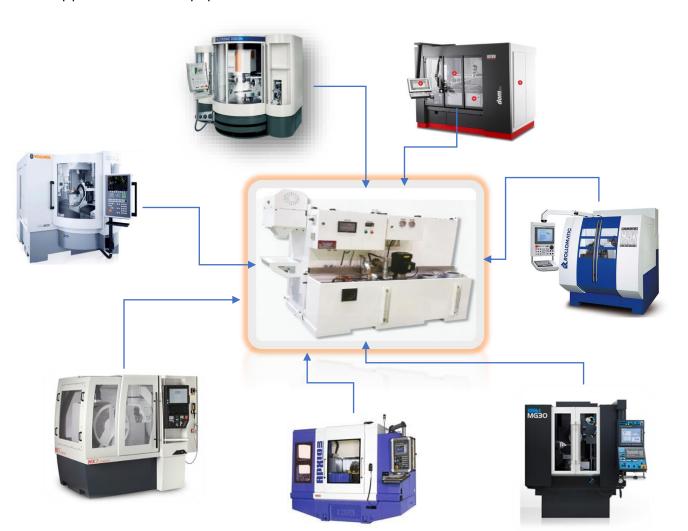
- Candle filter made of special paper
- Water-insoluble filter type
- Water-soluble filter type (**candle filter only product)
- Outstanding durability with 61 candles
- Long filter life (normal use conditions)
 - -Usage environment: refer to the appendix





Applied Equipment

- · Widely used for all grinding and cutting equipment such as carbide, HSS, and steel
- electrical discharge machining equipment
- Applicable to all equipment such as WALTER, ANCA, Rollematic, Vollmer, etc.



Operation screen composition

- 1) Automatic mode
- 2) Manual mode
- 3) Setting mode
- 4) Alarm window (save error history)

It consists of 4 screens.

Anyone can easily operate it.

★ Like the screen on the right

Anyone can operate it easily with the large touch screen.

and the current progress is displayed on the screen.

You can see the current status of the filtering device at a glance.

In addition, by manipulating the setting contents to suit the work environment,

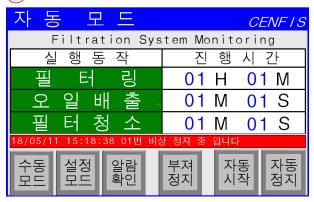
Available under optimal conditions.

The history of the equipment is saved in the alarm window.

Check the status on the screen and take action

you can know

(1)

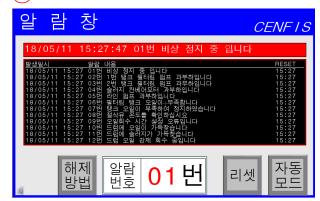


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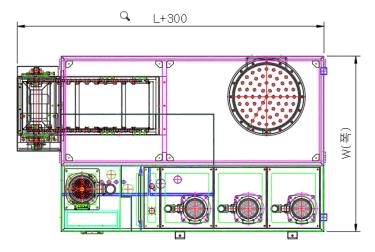


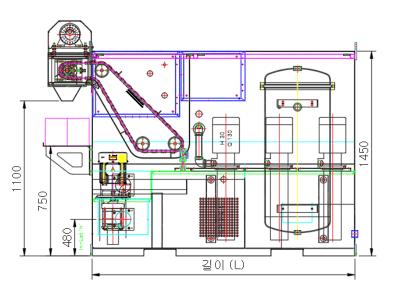
(3)정 CENF IS 현재시간 01 시 01분 필터링 시간 01H 01M 자동시작 예약 대기 오일배출 시간 01M 01S 01시 01분 필터청소 시간 01M 01S 자동정지 예약 대기 01시 01분 오일침전 시간 01H 01M PASSWORD 자동 모드 컨베어 휴지 시간 0128 리셋 0123

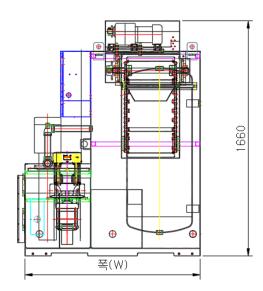
(4)



filterring unit LAY-OUT







Configuration of CENFIS filtering device (CFO Model)													
Model	device size (cm)			oil tank capacity	Used oil inlet	throughput per minute		sludge device					
	L	W	Н	I	h	l/min	EA	O/X					
1TK06H01-CV	1500	1100	1450	600	480	60	1	0					
1TK08H02-CV	1800	1100	1450	800	480	120	1	0					
2TK13H04-CV	2800	1200	1450	1300	480	240	2	0					
3TK18H05-CV	3400	1400	1450	1800	480	360	3	0					
CFx-xTKxxx-CV	Order production optimized for user needs (large capacity and method, etc.)												
	Sludge device composition												
DM-200	630	810	1740	drum type sludge device									
CV-STD	300	505	580	Sludge external automatic discharge device (free use of drum and general box)									
OEM				Manufactured to your needs									

Appendix - Candle filter usage environment and precautions

- 1) The moisture content of the grinding oil used must be less than 0.01%.
- 2) Supply air must not contain moisture (used when cleaning the filter)
- 3) When cleaning the filter, keep the air pressure supplied at least 4 bar or higher. (used 3-5 minutes)
- 4) The size of sludge should be over 1 micron. (In the case of nano particles, depending on the content, the filter may be clogged or its lifespan may be shortened)
- 5) Grinding oil viscosity $5 \sim 9\%$ (the higher the viscosity, the lower the flow rate)
- 6) Use clean oil for initial equipment installation (In the case of equipment that has been used, it is necessary to clean the sludge that was previously used)
- 7) There must be no other foreign substances (Contains unknown foreign substances, etc.

 The viscosity of the sludge makes it sticky, making it impossible to clean the filter)
- * When using the device, the above must be satisfied. In general, shortening the lifespan of the filter has the greatest effect on the following and serves to damage the filter.
 - see below -
- 1) Moisture (grinding oil / supply air)
- In case of inflow of moisture, it compresses the filter and damages it. (The flow rate cannot be secured due to the increase in filter pressure)

- 2) Sludge size (Nano size):
 - When the size of the sludge is nano size (below 1 Micron) mainly appear. (Filter pressure rises and flow rate is not secured)
- In the case of nano size, sludge gets stuck in the gap of the filter when cleaning

The sludge does not come off, resulting in clogging.

3) Maintain 4 ~ 5.5 bar of air pressure when cleaning the filter



공냉식 CHILLER (일체형)



🧆 특징

- -실외기, 실내기가 일체로 구성된 제품으로 콤팩트함.
- -Caster가 장착되어 장소 이동이 편리함.
- -고성능, 저소음의 콤프레샤 내장으로 탁월한 냉동기능 발휘.
- -디지털 온도제어장치를 채택하여 정확한 온도 유지가 가능.
- -사용온도 범위를 폭넓게 조정.
- -누전차단기 보호용 연동회로를 장착하여 고장발생을 사전에 예방하고, 높은 안정성 유지.

Feature

- -Compact product whose outdoor unit and indoor unit consisted as single.
- -Convenient to move location with a built-in Caster
- -Exerting excellent freezing function since a compressor of high performance, low noise is built-in
- -Maintaining accurate temperature by adopting digital thermostat and capable of widely adjusting scope of temperature used.
- Previously preventing occurrence of failure and maintaining high stability with built-in of interface circuit for protecting electrical leakage.
- ◆ 1RT, 2RT는 DIMENSION이 작아질 수 있습니다.
- ◆ 7.5RT이상은 현장조건에 따라 입출구 구경과 PUMP 사양이 변경될 수 있습니다.
- ◆ 본 사양 이외에도 특별 주문제작이 가능합니다.
- ◆ 상기 사양은 품질 개선을 위하여 예고없이 변경될 수 있습니다.

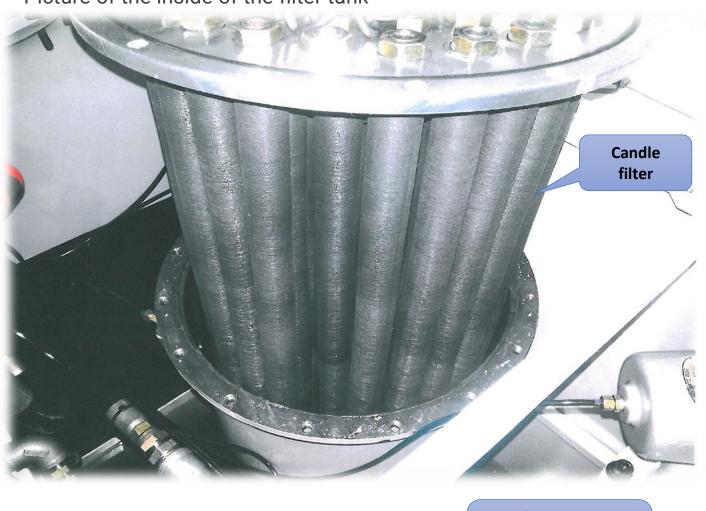
공냉식 CHILLER 사양 (일체형)

MODEL	HYS-1AU	HYS-3AU	HYS-5AU	HYS-7.5AU	HYS-10AU	HYS-15AU	HYS-20AU	HYS-30AU	HYS-40AU
Cooling Capacity (Kcal/hr)	3,000	9,000	15,000	24,000	30,000	45,000	60,000	90,000	120.000
Temperature Range (°C)					5~36°C				
Ambient Temperature Range(°C)			5~38°C						
Cooling water Pressure Range(kgf/cm²)*A*type	0.5~1.5	1.8~3.8	1.8~3.8	1.8~3.8	1.8~3.8	2.5~4.2	25~42	3.4~5.5	3~5.5
Cooling Water Circulation Volume range(LPM)	5~20	16~66	16~66	33~133	33~133	100~216	100~216	100~216	100~433
Cooling Water Tank Capacity (!)	32	66	80	80	160	225	300	450	600
Cooling Water Link Pipe (A)	15	20	25	32	32	40	50	50	50
Refrigerant			R-	22, R-13	4a, R-40	4C, R-407C			
Comp Capacity (Kw)	0.75	2.25	3.75	5.63	7.5	11.25	15	22.5	30
Circulation Pump Capacity (Kw)	0.45	0.75	0.75	1.1	1.1	2.2	2.2	3	4
Cooling Fan Motor Capacity (Kw)	0.1	0.2	0.4	0.2×2	0.4×2	0.4×2	0.75×2	0.75×2	0.75×2
Power Consumption (Kw)	1.3	3.2	4.9	7.13	9.14	14.25	19.5	27	35.5
Power Specification			AC 1Ø	220. 3Ø 220	. 3Ø 380. 3	Ø 440V 50	-60Hz		
Control Circuit Power	AC 1Ø 220V								
External Dimension (W×L×H)	530 ×800 ×1080	600×1100 ×1260	680×1200 ×1410	750×1450 ×1635	800×1700 ×1685	1000×1800 ×1960	1100×2200 ×2080	1000×2550 ×2280	3480×1030 ×1872
Weight (Kg)	90	140	250	450	550	850	1,000	1,500	1,560

추천사항 1TK 5 RT 2TK 8 또는10 RT



Picture of the inside of the filter tank





- filter arbor
- Before filter assembly





Automatic sludge discharge device



- The stand is detachable.
- Several types of sludge bins are available.

Automatic sludge discharge device

Sludge basket Pedestal



Inside the automatic ejection system



The shape of the sludge discharged from the automatic sludge discharge device













Natural drainage aid for equipment with a low drain height for used oil

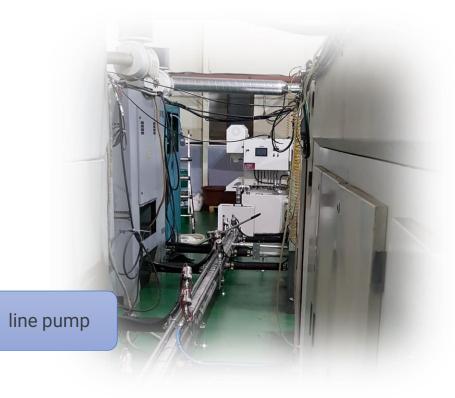


Natural drainage unit



For equipment with very low outlet height

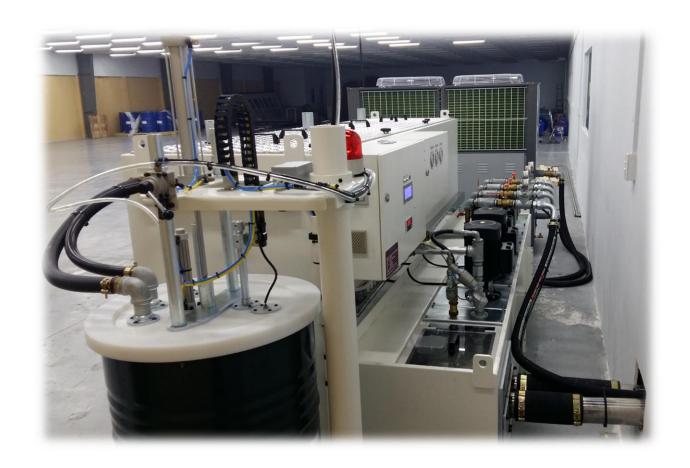




Piping installation using a line pump

The position of the outlet where the used oil is discharged is low Auxiliary tank is not available.









Multi-valve products



drainage auxiliary tank







Installation example of natural drainage method





















