Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
C5		Capacity DIP	Cascade	Hőszivattyú	Incorrect capacity DIP switch setting	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
d6		Defro. sensor	Cascade	Hőszivattyú	Defrost temperature sensor error	Check the Temp Sensor, check the main board	
dH		Temp-AHLW	Cascade	Hőszivattyú	Auxiliary heater-leaving water temperature sensor error	Check the Temp Sensor, check the main board	
dL		LOW-pre. Sens.	Cascade	Hőszivattyú	Low pressure sensor error	Check the Pressure Transducer	
E0		HP-pump	Cascade	Hőszivattyú	Heat pump-water pump protection		
E1		High pressure	Cascade	Hőszivattyú	High pressure protection	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E3		Low pressure	Cascade	Hőszivattyú	Low pressure protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4		Hi-discharge	Cascade	Hőszivattyú	High discharge protection	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E6		ODU-IDU Com.	Cascade	Hőszivattyú	Communication error between indoor and outdoor unit		
E6		ODU Com.	Cascade	Hőszivattyú	Communication error to the outdoor unit		
E6		IDU Com.	Cascade	Hőszivattyú	Communication error to the indoor unit		
E6		Driver Com.	Cascade	Hőszivattyú	Communication error to the drive		
Ec		HP-Water SW	Cascade	Hőszivattyú	Heat pump-water flow switch		
EF		Outdoor fan	Cascade	Hőszivattyú	Outdoor fan error	fan motor malfunction or system blocked or the connector loosed	
EH		Auxi. heater 1	Cascade	Hőszivattyú	Welding protection of the auxiliary heater 1		
EH		Auxi. heater 2	Cascade	Hőszivattyú	Welding protection of the auxiliary heater 2		
EH		Auxi. -WTH	Cascade	Hőszivattyú	Welding protection of the water tank heater		
EL		SL-pump	Cascade	Hőszivattyú	Solar kit-water pump protection		
F2		SL-Water SW	Cascade	Hőszivattyú	Solar kit-water flow switch	Check the Sensor, check the main borad	
F3		T-Remote Air1	Cascade	Hőszivattyú	Remote room sensor 1	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4		Ambient sensor	Cascade	Hőszivattyú	Ambient temperature sensor error	Check the Temp seensor, check the main board	
F5		Suction sensor	Cascade	Hőszivattyú	Suction temperature sensor error	Check the Temp Sensor, check the main board	
F6		Solarsuperheat	Cascade	Hőszivattyú	Solar kit-superheating	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F7		Disch. sensor	Cascade	Hőszivattyú	Discharge temperature sensor error	Check the Temp Sensor, check the main board	

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
F8		En. senser	Cascade	Hőszivattyú	Enthalpy-enhancing sensor error	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F9		Temp-HELW	Cascade	Hőszivattyú	Heat exchanger-leaving water temperature sensor error	Check the Temp Sensor, check the main board	
Fc		Hl-pre. sens.	Cascade	Hőszivattyú	High pressure sensor error		
FE		Tank sens. 1	Cascade	Hőszivattyú	Water tank water temperature sensor 1 error	Check the Temp Sensor, check the main board	
FF		T-Solar pannel	Cascade	Hőszivattyú	Solar kit- temp sensor		
FH		T-SL water in	Cascade	Hőszivattyú	Solar kit-leaving water temp sensor		
H3		Comp. overload	Cascade	Hőszivattyú	Compressor internal overload protection		
H5		IPM defective	Cascade	Hőszivattyú	IPM defective	Check the Temp Sensor, check the main board	
H7		Comp. stalling	Cascade	Hőszivattyú	Compressor stalling		
Hc		FPC defective	Cascade	Hőszivattyú	PFC defective		
Lc		Start failure	Cascade	Hőszivattyú	Start failure		
LD		Phase loss	Cascade	Hőszivattyú	Phase loss		
LE		drive-main com.	Cascade	Hőszivattyú	Communication error		
LF		Current sen.	Cascade	Hőszivattyú	Sensing circuit error or current sensor error		
P0		Com. over-cur.	Cascade	Hőszivattyú	Compressor over-current		
P2		Refri-loss	Cascade	Hőszivattyú	Refrigerant loss protection		
P5		Overspeed	Cascade	Hőszivattyú	Overspeed		
P6		Driver reset	Cascade	Hőszivattyú	Drive module resetting		
P7		T-mod. sensor	Cascade	Hőszivattyú	Radiator or IPM or PFC module temperature sensor error	Check the Temp Sensor, check the main board	
P8		Overtemp.-mod.	Cascade	Hőszivattyú	Radiator or IPM or PFC module overtemperature		
P9		AC contactor	Cascade	Hőszivattyú	AC contactor protection or input zero crossing error		
PA		AC curr. pro.	Cascade	Hőszivattyú	AC current protection (input side)		
Pc		Desynchronize	Cascade	Hőszivattyú	Desynchronizing		
PD		Sensor con.	Cascade	Hőszivattyú	Current sensor connection protection (current sensor not connected to phase U/V)		
PE		Temp. drift	Cascade	Hőszivattyú	Temperature drift protection		
PF		Temp-driver	Cascade	Hőszivattyú	Drive board temperature sensor error	Check the Temp Sensor, check the main board	
PH		DC over-vol.	Cascade	Hőszivattyú	Over-voltage DC bus		
PL		DC under-vol.	Cascade	Hőszivattyú	Under-voltage DC bus or voltage drop error		
PP		AC voltage	Cascade	Hőszivattyú	Incorrect AC voltage input		
Pu		Charge circuit	Cascade	Hőszivattyú	Charging circuit error		
		Drive com.	Cascade	Hőszivattyú	Drive communication error		
		Temp-HEEW	Cascade	Hőszivattyú	Heat exchanger-entering water temperature sensor error	Check the Temp Sensor, check the main board	
		Tank sens. 2	Cascade	Hőszivattyú	Water tank water temperature sensor 2 error	Check the Temp Sensor, check the main board	
		T-SL water out	Cascade	Hőszivattyú	Solar kit-entering water temp sensor		
		T-Remote Air2	Cascade	Hőszivattyú	Remote room sensor 2		
		Drive com.	**Cascade**	Hőszivattyú	Drive communication error		
		Temp-HEEW	**Cascade**	Hőszivattyú	Heat exchanger-entering water temperature sensor error		
		Tank sens. 2	**Cascade**	Hőszivattyú	Water tank water temperature sensor 2 error		
		T-SL water out	**Cascade**	Hőszivattyú	Solar kit-entering water temp sensor		

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
		T-Remote Air2	**Cascade**	Hőszivattyú	Remote room sensor 2		
U8			Cascade	Bee Viola 18/24 K Free Match	null-átmenet érzékelő hiba		
C1			Cascade	Cascade	szigetelési hiba		
C3			Cascade	Cascade	helytelen bekötési sorrend		
C5			Cascade	Cascade	teljesítmény JUMPER hiány a beltéri vezérlőpanelen	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
C6			Cascade	Cascade	testvezeték nincs bekötve		
E0			Cascade	Cascade	a túl alacsony AC feszültség miatt túl alacsony az inverter frekvenciája		
E1			Cascade	Cascade	magas nyomás védelem	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E2			Cascade	Cascade	beltéri jegesedés védelem	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E3			Cascade	Cascade	alacsony nyomás védelem	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E3			Cascade	Cascade	elpárologtató hővédelem (túlmelegedés)	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4			Cascade	cascade	kompresszor túl magas fejhőmérséklet	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade	Cascade	alacsony feszültség miatti túláram védelem	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
E6			Cascade	Cascade	kommunikációs hiba a beltéri-, és a kültéri egység között		
E9			Cascade	Cascade	fűtésben hideg levegő befúvás elleni védelem	Not the error code. Its the status code for the operation	
F0			Cascade	Cascade	hűtőközeg hiány, vagy dugulás	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	
F1			Cascade	Cascade	beltéri szívott levegő termisztor	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
F2			Cascade	Cascade	beltéri csőhőmérséklet termisztor	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3			Cascade	Cascade	kültéri levegő termisztor	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4			Cascade	Cascade	kondenzátor csőhőmérséklet termisztor	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade	Cascade	kompresszor nyomócsonk termisztor	Check the Temp Sensor, check the main board	
F6			Cascade	Cascade	kondenzátor túlmelegedés védelem (az inverier frekvencia csökkentése)	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F7			Cascade	Cascade	inverter kompresszor szárazon járás védelem {olaj visszagyűjtés)		
F8			Cascade	Cascade	Túltehelés védelem (az inverter frekvencia csökkentése)	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F9			Cascade	Cascade	Kompresszor magas fejhőmérséklet (az inverter frekvencia csökkentése)		
FA			Cascade	Cascade	Elpárologtató, vagy kondenzátor túlmelegedés		
FE			Cascade	Cascade	túlterhelés érzékelő hiba		
FH			Cascade	Cascade	jegesedés védelem (frekvencia csökkentés)		
FP			Cascade	Cascade	érzékelő ellenőrzés hiba		
H1			Cascade	Cascade	leolvasztás		
H2			Cascade	Cascade	static clearing dust protection		
H3			Cascade	Cascade	kompresszor túlterhelés védelem (klixonolás) (elpár és kondenzátor koszos)		
H4			Cascade	Cascade	rendszer rendellenesség (többnyire hűtőközeg hiány miatt)		
H5			Cascade	Cascade	IPM modul védelem	Check the Temp Sensor, check the main board	
H6			Cascade	Cascade	a beltéri motortól nincs fordulatszám jel		
H7			Cascade	Cascade	kompresszor pozíció hiba		
H8			Cascade	Cascade	a víztartály megtelt		
H9			Cascade	Cascade	Elektrromos fűtőbetét hiba		
HC			Cascade	Cascade	PFC védelem		
HE			Cascade	Cascade	kompresszor demagnetizálás védelem		
LC			Cascade	Cascade	kompresszor indítási hiba		
E5			Cascade	Cozy 18/24 k	betáp feszültség alacsony, vagy "leng"	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
F9			Cascade	Cozy 18/24 k	túlterhelés védelem (túl magas környezeti hőmérséklet, hűtőközeg hiány, exp. Szelep hiba, stb.)		

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
A5			Cascade	Free Match R32	Outdoor condenser inlet pipe temperature sensor is open/short circuited (commercial)	Check the Temp Sensor, check the main board	
A7			Cascade	Free Match R32	Outdoor condenser outlet pipe temperature sensor is open/short circuited (commercial)	Check the Temp Sensor, check the main board	
b5			Cascade	Free Match R32	Liquid valve temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
b7			Cascade	Free Match R32	Gas valve temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
C5			Cascade	Free Match R32	Malfunction protection of jumper cap	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
E1			Cascade	Free Match R32	High pressure protection of system	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E3			Cascade	Free Match R32	Low pressure protection of system (reserved)	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E6			Cascade	Free Match R32	Communication malfunction		
F0			Cascade	Free Match R32	Refrigerant lacking or blockage protection of system (not available for residential ODU)	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	
F1			Cascade	Free Match R32	Indoor ambient temperature sensor is open/short circuited	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	Free Match R32	Indoor evaporator temperature sensor is open/short circuited	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F4			Cascade	Free Match R32	Outdoor ambient temperature sensor is open/short circuited	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade	Free Match R32	Outdoor discharge temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
H3			Cascade	Free Match R32	Compressor overload protection		
H6			Cascade	Free Match R32	Feedback of without IDU motor		
HE			Cascade	Free Match R32	Compressor demagnetization protection		
LP			Cascade	Free Match R32	Indoor unit and outdoor unit do not match		
P7			Cascade	Free Match R32	Modular temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
P8			Cascade	Free Match R32	Module high temperature protection		
PU			Cascade	Free Match R32	Charging malfunction of capacitor		

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
U1			Cascade	Free Match R32	Malfunction of phase current detection circuit for compressor		
U3			Cascade	Free Match R32	Malfunction of voltage dropping for DC bus-bar		
U8			Cascade	Free Match R32	Zero cross detection circuit malfunction		
A5			Cascade	Free-Match	Outdoor condenser inlet pipe temperature sensor is open/short circuited (commercial)	Check the Temp Sensor, check the main board	
A7			Cascade	Free-Match	Outdoor condenser outlet pipe temperature sensor is open/short circuited (commercial)	Check the Temp Sensor, check the main board	
AL			Cascade	Free-Match	"X-Fan" (öntisztítás)	nem hibakód, hanem működési állapot (öntisztítás)	
B5			Cascade	Free-Match	beltéri egység belépő csonk termisztor hiba	Check the Temp Sensor, check the main board	
b7			Cascade	Free-Match	Gas valve temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
C5			Cascade	Free-Match	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
dd			Cascade	Free-Match	hibásan bekötött kommunikációs vezeték, vagy hibás elektronikus expanziós szelep	Step 1: Check for Crossed Wiring, Step 2: Check the Stepper Motor	
dn			Cascade	Free-Match	hibásan bekötött kommunikációs vezeték, vagy hibás elektronikus expanziós szelep	Step 1: Check for Crossed Wiring, Step 2: Check the Stepper Motor	
E1			Cascade	Free-Match	High pressure protection	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E2			Cascade	Free-Match	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E3			Cascade	Free-Match	Low pressure protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4			Cascade	Free-Match	High discharge temperature protection of compressor	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade	Free-Match	betáp túláram védelem	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
E5			Cascade	Free-Match	Whole unit overcurrent protection	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
E6			Cascade	Free-Match	Communication malfunction		
E7			Cascade	Free-Match	ütköző üzemmód a beltéri egységek között		

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
E8			Cascade	Free-Match	Overload protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
EE			Cascade	Free-Match	Malfunction of memory chip	Check the Outdoor Board	
F0			Cascade	Free-Match	Refrigerant lacking or blockage protection of system (not available for residential ODU)	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	
F1			Cascade	Free-Match	Indoor ambient temperature sensor is open/short circuited	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	Free-Match	Indoor evaporator temperature sensor is open/short circuited	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3			Cascade	Free-Match	Outdoor ambient sensor malfunction	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4			Cascade	Free-Match	Outdoor ambient temperature sensor is open/short circuited	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4			Cascade	Free-Match	Outdoor condenser middle pipe temperature sensor is open/short circuited	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade	Free-Match	Exhaust sensor malfunction	Check the Temp Sensor, check the main board	
FH			Cascade	Free-Match	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
Fo			Cascade	Free-Match	Refrigerant recycling mode		
H1			Cascade	Free-Match	leolvasztás, vagy olaj visszakeringtetés fűtésben		
H3			Cascade	Free-Match	Compressor overload protection		
H4			Cascade	Free-Match	Over-burden protection		
H5			Cascade	Free-Match	IPM protection	Check the Temp Sensor, check the main board	
H6			Cascade	Free-Match	Feedback of without IDU motor		
H7			Cascade	Free-Match	Compressor desynchronizing		
HC			Cascade	Free-Match	PFC protection		
HE			Cascade	Free-Match	kompresszor demagnetizálás védelem		
L3			Cascade	Free-Match	Malfunction protection of outdoor fan 1	DC fan motor malfunction or system blocked or the connector loosed	
L9			Cascade	Free-Match	Power protection		
LA			Cascade	Free-Match	DC ventilátor motor hiba		
LC			Cascade	Free-Match	Start failure of compressor		
Ld			Cascade	Free-Match	kompresszor fázis hiány, vagy fázis sorrend hiba		
LD			Cascade	Free-Match	Compressor phase-lacking/phase-inverse protection		
LE			Cascade	Free-Match	a kompresszor "akadozik" lelassul		

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LF			Cascade	Free-Match	a kompresszor túlpörög		
LP			Cascade	Free-Match	Indoor unit and outdoor unit do not match		
oE			Cascade	Free-Match	PFC module temperature protection		
P0			Cascade	Free-Match	IPM reset	Check the Temp Sensor, check the main board	
P5			Cascade	Free-Match	Compressor phase current protection		
P6			Cascade	Free-Match	kommunikációs hiba a fő vezérlőpanel és az inverter panel között		
P7			Cascade	Free-Match	kondenzátor csőhőmérséklet termisztor		
P7			Cascade	Free-Match	Modular temperature sensor is open/short circuited	Check the Temp Sensor, check the main board	
P8			Cascade	Free-Match	IPM modul túlmelegedés védelem	Check the Temp Sensor, check the main board	
P8			Cascade	Free-Match	kondenzátor túlmelegedés védelem (az inverier frekvencia csökkentése)		
P9			Cascade	Free-Match	AC relé hiba		
PA			Cascade	Free-Match	váltóáram áramérzékelő hiba		
Pc			Cascade	Free-Match	áramérzékelő hiba		
Pd			Cascade	Free-Match	érzékelő csatlakozási hiba		
PE			Cascade	Free-Match	téves hőmérséklet érzékelés		
PF			Cascade	Free-Match	inverter panel környezeti hőmérséklet termisztor hiba		
PH			Cascade	Free-Match	DC bus-bar high voltage protection		
PL			Cascade	Free-Match	DC bus-bar low voltage protection		
PP			Cascade	Free-Match	váltóáramú betáplálás anomália		
PU			Cascade	Free-Match	Charging malfunction of capacitor		
U1			Cascade	Free-Match	Malfunction of phase current detection circuit for compressor		
U3			Cascade	Free-Match	Malfunction of voltage dropping for DC bus-bar		
U5			Cascade	Free-Match	Malfunction of complete units current detection		
U7			Cascade	Free-Match	The four-way valve is abnormal		
U8			Cascade	Free-Match	Zero cross detection circuit malfunction		
E9			Cascade	Indoor units with factory cond. Pump	Condensate overflow protection (indoor units with factory cond. pump)		
E7			Cascade	Multi-zone systems only	Mode conflict (Multi-zone systems only)		
b5			Cascade	Super+Multi & Ultra	Inlet Tube Sensor (Super+Multi & Ultra Liquid Pipe of BU Tube Sensor)	Check the Temp Sensor, check the main board	
b7			Cascade	Super+Multi & Ultra	b7: Outlet Tube Sensor (Super+Multi & Ultra Gas Pipe of BU Tube Sensor)	Check the Temp Sensor, check the main board	
-	09		cascade	U-Match	olaj visszaforgatás (nem hiba)		
-	LP		cascade	U-Match	nem összeillő beltéri-, és kültéri egység		
C4			**Cascade**	U-Match	ODU jumper cap error	Step 1: Check the Jumper Cap, Step 2: Check the Outdoor Board	
C5			Cascade	U-Match	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
def	08		cascade	U-Match	leolvasztás (nem hiba)		
dJ			Cascade	U-Match	Phase-loss and anti-phase protection		

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
E1			Cascade	U-Match	Compressor high pressure protection	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E2			Cascade	U-Match	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E3			Cascade	U-Match	Compressor low pressure protection, refrigerant lack protection and refrigerant colleting mode	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4	E4		cascade	U-Match	kompresszor túl magas fejhőmérséklet	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E6	E6		cascade	U-Match	kommunikációs hiba a a kültéri-, beltéri, vagy vezetékes távirányító között		
E8			Cascade	U-Match	Indoor fan error	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade	U-Match	Water-full protection	Not the error code. Its the status code for the operation	
EE			Cascade	U-Match	ODU memory chip error	Check the Outdoor Board	
EL			Cascade	U-Match	Emergency stop (fire alarm)		
F0			Cascade	U-Match	Indoor ambient temperature sensor error	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	
F1			Cascade	U-Match	Evaporator temperature sensor error	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2	F2		cascade	U-Match	Condenser temperature sensor error	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3	F3		cascade	U-Match	Outdoor ambient temperature sensor error	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4	F4		cascade	U-Match	kompresszor fejhőmérséklet termisztor hiba	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade	U-Match	Wired control temperature sensor error	Step 1: Check the Temp Sensor	
H3			Cascade	U-Match	Compressor overload protection		

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
H4			Cascade	U-Match	System overload, high temperature resistance protection	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Undercharged, Step 5: Check for Restriction, Step 6: Check by 4 Point Temp Check	
H5			Cascade	U-Match	IPM protection	Check the Temp Sensor, check the main board	
H6			Cascade	U-Match	DC fan error	DC fan motor malfunction or system blocked or the connector loosed	
H7			Cascade	U-Match	Driver out-of-step protection		
HC			Cascade	U-Match	Pfc protection		
LC			Cascade	U-Match	Startup failure		
LD			Cascade	U-Match	Compressor phase-sequence protection		
LE			cascade	U-Match	kompressszor dugulás		
LF			Cascade	U-Match	Power protection		
LP			Cascade	U-Match	IDU and ODU unmatched		
oE			Cascade	U-Match	ODU error, for specific error please see the status of ODU main board indicator		
P0			Cascade	U-Match	Driver reset protection		
P5			Cascade	U-Match	Over-current protection		
P6			Cascade	U-Match	Master control and driver communication error		
P7			Cascade	U-Match	Driver module sensor error		
P8			Cascade	U-Match	Driver module high temperature protection		
P9			cascade	U-Match	váltóáramú relé hiba		
PA			Cascade	U-Match	AC current protection		
Pc			Cascade	U-Match	Driver current error		
Pd			Cascade	U-Match	Sensor connection protection		
PE			cascade	U-Match	téves hőmérséklet érzékelés		
PF			Cascade	U-Match	Electric box sensor error		
PH			Cascade	U-Match	Bus high-voltage protection		
PL			Cascade	U-Match	Bus low-voltage protection		
PP			Cascade	U-Match	Input voltage error		
PU			Cascade	U-Match	Charge loop error		
U7			Cascade	U-Match	4-way valve locked trouble / operation failure, valve coil disconnected, line disconnected		
C5			Cascade	U-Match R32	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
dJ			Cascade	U-Match R32	Phase-loss and anti-phase protection		
E1			Cascade	U-Match R32	Compressor high pressure protection	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E2			Cascade	U-Match R32	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
E3			Cascade	U-Match R32	Compressor low pressure protection, refrigerant lack protection and refrigerant colleting mode	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4			Cascade	U-Match R32	Compressor air discharge high-temperature protection	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E6			Cascade	U-Match R32	Communication error		
E8			Cascade	U-Match R32	Indoor fan error	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade	U-Match R32	Water-full protection	Not the error code. Its the status code for the operation	
EE			Cascade	U-Match R32	ODU memory chip error	Check the Outdoor Board	
EL			Cascade	U-Match R32	Emergency stop (fire alarm)		
F0			Cascade	U-Match R32	Indoor ambient temperature sensor error	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere	
F1			Cascade	U-Match R32	Evaporator temperature sensor error	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	U-Match R32	Condenser temperature sensor error	Check the Temp Sensor, check the main board	
F3			Cascade	U-Match R32	Outdoor ambient temperature sensor error	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4			Cascade	U-Match R32	Discharge temperature sensor error	Check the Temp seensor, check the main board	
F5			Cascade	U-Match R32	Wired control temperature sensor error	Step 1: Check the Temp Sensor	
H3			Cascade	U-Match R32	Compressor overload protection		
H4			Cascade	U-Match R32	System overload, high temperature resistance protection	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Undercharged, Step 5: Check for Restriction, Step 6: Check by 4 Point Temp Check	
H5			Cascade	U-Match R32	IPM protection	Check the Temp Sensor, check the main board	
H6			Cascade	U-Match R32	DC fan error	DC fan motor malfunction or system blocked or the connector loosed	
H7			Cascade	U-Match R32	Driver out-of-step protection		
HC			Cascade	U-Match R32	Pfc protection		
Lc			Cascade	U-Match R32	Startup failure		
Ld			Cascade	U-Match R32	Compressor phase-sequence protection		
LF			Cascade	U-Match R32	Power protection		
Lp			Cascade	U-Match R32	IDU and ODU unmatched		

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
oE			Cascade	U-Match R32	ODU error, for specific error please see the status of ODU main board indicator		
P0			Cascade	U-Match R32	Driver reset protection		
P5			Cascade	U-Match R32	Over-current protection		
P6			Cascade	U-Match R32	Master control and driver communication error		
P7			Cascade	U-Match R32	Driver module sensor error		
P8			Cascade	U-Match R32	Driver module high temperature protection		
PA			Cascade	U-Match R32	AC current protection		
Pc			Cascade	U-Match R32	Driver current error		
Pd			Cascade	U-Match R32	Sensor connection protection		
PF			Cascade	U-Match R32	Electric box sensor error		
PH			Cascade	U-Match R32	Bus high-voltage protection		
PL			Cascade	U-Match R32	Bus low-voltage protection		
PP			Cascade	U-Match R32	Input voltage error		
PU			Cascade	U-Match R32	Charge loop error		
U7			Cascade	U-Match R32	4-way valve locked trouble / operation failure, valve coil disconnected, line disconnected		
C5			Cascade	Viola 9/12/18/24 k	teljesítmény JUMPER hiány a beltéri vezérlőpanelen	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
EU			Cascade	Viola 9/12k	frekvencia csökkentés a IPM modul magas hőmérséklete miatt	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1	
L3			Cascade	Viola 9/12k	kültéri ventilátor motor hiba		
L9			Cascade	Viola 9/12k	betáp hiba védelem		
LP			Cascade	Viola 9/12k	nem összeillő beltéri-, és kültéri egység		
P0			Cascade	Viola 9/12k	kompresszor min. frekvencia (teszt üzem)		
P1			Cascade	Viola 9/12k	kompresszor névleges frekvencia (teszt üzem)		
P2			Cascade	Viola 9/12k	kompresszor max. frekvencia (teszt üzem)		
P3			Cascade	Viola 9/12k	kompresszor közepes frekvencia (teszt üzem)		
P5			Cascade	Viola 9/12k	kompresszor túláram védelem		
P7			Cascade	Viola 9/12k	IPM modul áramköri hiba (termisztor jelfeldolgozás)	Check the Temp Sensor, check the main board	
P8			Cascade	Viola 9/12k	IPM modul túlmelegedés védelem	Check the Temp Sensor, check the main board	
U1			Cascade	Viola 9/12k	kompresszor áramérzékelő hiba		
U9			Cascade	Viola 9/12k	kültéri null-átmenet érzékalő hiba		
E8			Cascade	Viola 9/12k Free Match	túl magas hőmérséklet elleni védelem (környezet 53 °C felett)		
EE			Cascade	Viola 9/12k Free Match	EEPROM hiba	Check Power Supply, Check the Outdoor Board	
Fo			Cascade	Viola 9/12k Free Match	hűtőközeg leszívatás		
PH			Cascade	Viola 9/12k Free Match	túl magas DC feszültség		
PL			Cascade	Viola 9/12k Free Match	túl alacsony DC feszültség		
PU			Cascade	Viola 9/12k Free Match	kondenzátor (elektromos) töltési hiba		
U3			Cascade	Viola 9/12k Free Match	Túl nagy DC feszültségesés		
U5			Cascade	Viola 9/12k Free Match	betáp áramérzékelő hiba		

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
U7			Cascade	Viola 9/12k Free Match	váltószelep hiba		
C5			Cascade	Vision	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
E2			Cascade	Vision	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E4			Cascade	Vision	Discharge high-temperature protection of compressor	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade	Vision	Overcurrent protection of the complete unit	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
E6			Cascade	Vision	Communication malfunction between indoor and outdoor units		
E8			Cascade	Vision	Overload protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade	Vision	Cold air prevention protection	Not the error code. Its the status code for the operation	
En			Cascade	Vision	Limit/decrease frequency due to module current protection (phase current)		
EU			Cascade	Vision	Limit/decrease frequency due to module temperature protection	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1	
F0			Cascade	Vision	In defect of refrigerant	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	
F1			Cascade	Vision	Indoor ambient temperature sensor is open/short-circuited	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	Vision	Indoor evaporator temperature sensor is open/short-circuited	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3			Cascade	Vision	Outdoor ambient temperature sensor is open/short-circuited	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
F4			Cascade	Vision	Outdoor condenser tube temperature sensor is open/short-circuited	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade	Vision	Outdoor discharge temperature sensor is open/short-circuited	Check the Temp Sensor, check the main board	
F6			Cascade	Vision	Limit/decrease frequency due to overload	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F8			Cascade	Vision	Limit/decrease frequency due to current protection of the complete unit	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F9			Cascade	Vision	Limit/decrease frequency due to discharge	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)	
FH			Cascade	Vision	Limit/decrease frequency due to freeze protection		
Fo			Cascade	Vision	Refrigerant recovery mode		
H3			Cascade	Vision	Overload protection of compressor		
H5			Cascade	Vision	Module current protection (IPM protection)	Check the Temp Sensor, check the main board	
H6			Cascade	Vision	No feedback from indoor units motor		
H7			Cascade	Vision	Desynchronizing of compressor		
HC			Cascade	Vision	PFC protection		
JF			Cascade	Vision	Malfunction of detecting plate(WIFI)		
L3			Cascade	Vision	Malfunction of ODU DC fan	DC fan motor malfunction or system blocked or the connector loosed	
LC			Cascade	Vision	Failure start-up of compressor		
oE			Cascade	Vision	Undefined outdoor unit error		
P5			Cascade	Vision	Overcurrent protection of phase current		
P7			Cascade	Vision	Module temperature sensor is open/short-circuited	Check the Temp Sensor, check the main board	
P8			Cascade	Vision	Module temperature protection		
PH			Cascade	Vision	High voltage protection of DC bus bar		
PL			Cascade	Vision	Low voltage protection of DC bus bar		
PU			Cascade	Vision	Charging malfunction of capacitor		
U1			Cascade	Vision	Malfunction of phase current circuit detection for compressor		
U8			Cascade	Vision	Circuit malfunction of zero crossing detection		
C5			Cascade	Vision Nordic	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
E1			Cascade	Vision Nordic	High pressure protectio of system	Possible reasons: 1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
E2			Cascade	Vision Nordic	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E3			Cascade	Vision Nordic	System block or refrigerant leakage	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4			Cascade	Vision Nordic	High discharge temperature protection of compressor	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade	Vision Nordic	Overcurrent protection	1.: Supply voltage is unstable, 2. Supply voltage is too low and load is too high 3. Evaporator is dirty	
E6			Cascade	Vision Nordic	Communication malfunction	Refer to the corresponding malfunction analysis.	
E8			Cascade	Vision Nordic	High temperature resistant protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade	Vision Nordic	Cold air prevention protection	Not the error code. It's the status code for the operation.	
EE			Cascade	Vision Nordic	EEPROM malfunction	Check Power Supply, Check the Outdoor Board	
EU			Cascade	Vision Nordic	Limit/decrease frequency due to high temperature of module	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1	
F0			Cascade	Vision Nordic	Gathering refrigerant	Nominal cooling mode	
F1			Cascade	Vision Nordic	Indoor ambient temperature sensor is open/short curcuited	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	Vision Nordic	Indoor evaporator temperature sensor is open/short curcuited	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3			Cascade	Vision Nordic	Outdoor ambient temperature sensor is open/short curcuited	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)	

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
F4			Cascade	Vision Nordic	Outdoor condenser temperature sensor is open/short curcuited	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)	
F5			Cascade	Vision Nordic	Outdoor discharge temperature sensor is open/short-circuited	1.Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasnt been inserted into the copper tube	
F6			Cascade	Vision Nordic	Limit/decrease frequency due to overload	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F8			Cascade	Vision Nordic	Decrease frequency due to overcurrent	The input supply voltage is too low; System pressure is too high and overload	
F9			Cascade	Vision Nordic	Decrease frequency due to high air discharge	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)	
FH			Cascade	Vision Nordic	Limit/decrease frequency due to antifreezing	Poor air-return in indoor unit or fan speed is too low	
Fo			Cascade	Vision Nordic	Refrigerant recovery mode	Refrigerant recovery. The Serviceman operates it for maintenance.	
H3			Cascade	Vision Nordic	Overload protection for compressor	1. Wiring terminal OVC-COMP is loosened. In normal state, the resistance for this terminal should be less than 1ohm. 2.Refer to the malfunction analysis (discharge protection, overload)	
H5			Cascade	Vision Nordic	IPM protection	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
H6			Cascade	Vision Nordic	Internal (beltéri) motor (fan motor) do not operate	1. Bad contact of DC motor feedback terminal. 2. Bad contact of DC motor control end. 3. Fan motor is stalling. 4. Motor malfunction. 5. Malfunction of mainboard revdetecting circuit	
H7			Cascade	Vision Nordic	Desyncronizing of compressor	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
HC			Cascade	Vision Nordic	PFC protection	Refer to the malfunction analysis	
Heating indicator off for 0.5s and then blinks for 10s			Cascade	Vision Nordic	Defrosting	Not the error code. It's the status code for the operation	
JF			Cascade	Vision Nordic	Malfunction of detecting plate(WIFI)	1.Main board of indoor unit is damaged; 2.Detection board is damaged; 3.The connection between indoor unit and detection board is not good;	
L3			Cascade	Vision Nordic	Outdoor DC fan motor malfunction	DC fan motor malfunction or system blocked or the connector loosed	
L9			Cascade	Vision Nordic	Power protection	To protect the electronical components when detect high power	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
LC			Cascade	Vision Nordic	Failure start-up	Refer to the malfunction analysis	
LP			Cascade	Vision Nordic	Indoor unit and outdoor unit do not match	Indoor unit and outdoor unit doesnt match	
oE			Cascade	Vision Nordic	Undefined outdoor unit error	1. Outdoor ambient temperature exceeds the operation range of unit (eg: less than- 20oC or more than 60oC for cooling; more than 30oC for heating); 2. Failure startup of compressor? 3. Are wires of compressor not connected tightly? 4. Is compressor damaged? 5. Is main board damaged?	
P0			Cascade	Vision Nordic	Compressor Min. frequency in test state	Showing during min. cooling or min. heating test	
P1			Cascade	Vision Nordic	Compressor rated frequency in test state	Showing during nominal cooling or nominal heating test	
P2			Cascade	Vision Nordic	Compressor maximum frequency in test state	Showing during max. cooling or max. heating test	
P3			Cascade	Vision Nordic	Compressor intermediate frequency in test state	Showing during middle cooling or middle heating test	
P5			Cascade	Vision Nordic	Overcurrent protection of phase current for compressor	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
P7			Cascade	Vision Nordic	Malfunction of module temperature sensor curcuit	Check the Temp Sensor, check the main board	
P8			Cascade	Vision Nordic	Module high temperature protection	After the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.	
PH			Cascade	Vision Nordic	Voltage for DC busbar is too high	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)	
PL			Cascade	Vision Nordic	Voltage for DC busbar is too low	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is lower than 150VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)	
PU			Cascade	Vision Nordic	Charging malfunction of capacitor	Refer to the part three—charging malfunction analysis of capacitor	
U1			Cascade	Vision Nordic	Malfunction of phase current detection circuit for compressor	Replace outdoor control panel AP1	
U3			Cascade	Vision Nordic	Malfunction of voltage dropping for DC bus-bar	Supply voltage is unstable	
U5			Cascade	Vision Nordic	Malfunction of complete units current detection	Theres circuit malfunction on outdoor units control panel AP1, please replace the outdoor units control panel AP1.	

Cascade

FRIOTECH

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
U7			Cascade	Vision Nordic	The four-way valve is abnormal	1.Supply voltage is lower than AC175V; 2.Wiring terminal 4V is loosened or broken; 3.4V is damaged, please replace 4V.	
U8			Cascade	Vision Nordic	Malfunction of zero cross detection curcuit	1.Power supply is abnormal; 2.Detection circuit of indoor control mainboard is abnormal.	
C5			Cascade	Vision Pro	Jumper cap malfunction protection	1. No jumper cap insert on indoor mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard	
E1			Cascade	Vision Pro	High pressure protection of system	1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment); Ambient temperature is too high	
E2			Cascade	Vision Pro	Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	
E4			Cascade	Vision Pro	High discharge temperature protection of compressor	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade	Vision Pro	Overcurrent protection	1. Supply voltage is unstable; 2. Supply voltage is too low and load is too high; 3. Evaporator is dirty.	
E6			**Cascade**	Vision Pro	Communi- cation Malfunction	Refer to the corresponding malfunction analysis.	During cooling operation, compressor stops while indoor fan motor operates. During heating operation, the complete unit stops.
E8			Cascade	Vision Pro	High temperature resistant protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade	Vision Pro	Cold air prevention protection	Not the error code. Its the status code for the operation	
EE			Cascade	Vision Pro	EEPROM malfunction	Check Power Supply, Check the Outdoor Board	
EU			Cascade	Vision Pro	Limit/decrease frequency due to high temperature of module	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1	
F0			Cascade	Vision Pro	In defect of refrigerant	1. In defect of refrigerant; 2. Indoor evaporator temperature sensor works abnormally; 3. The unit has been plugged up somewhere.	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
F1			Cascade	Vision Pro	Indoor ambient temperature sensor is open/short curcuited	1. Loosening or bad contact of indoor ambient temp. Sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged	
F2			Cascade	Vision Pro	Indoor evaporator temperature sensor is open/short curcuited	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged	
F3			Cascade	Vision Pro	Outdoor ambient temperature sensor is open/short curcuited	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)	
F4			Cascade	Vision Pro	Outdoor condenseer temperature sensor is open/short curcuited	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)	
F5			Cascade	Vision Pro	Outdoor discharge temperature sensor is open/short-circuited	1.Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasnt been inserted into the copper tube	
F6			Cascade	Vision Pro	Limit/decrease frequency due to overload	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F8			Cascade	Vision Pro	Decrease frequency due to overcurrent	The input supply voltage is too low; System pressure is too high and overload	
F9			Cascade	Vision Pro	Decrease frequency due to high air discharge	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)	
FH			Cascade	Vision Pro	Limit/decrease frequency due to antifreezing	Poor air-return in indoor unit or fan speed is too low	
Fo			Cascade	Vision Pro	Refrigerant recovery mode	Refrigerant recovery. The Serviceman operates it for maintenance.	Refrigerant recovery. The Serviceman operates it for maintenance
H3			Cascade	Vision Pro	Overload protection for compressor	1. Wiring terminal OVC-COMP is loosened. In normal state, the resistance for this terminal should be less than 1ohm. 2.Refer to the malfunction analysis (discharge protection, overload)	
H5			Cascade	Vision Pro	IPM protection	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
H6			Cascade	Vision Pro	Internal (beltéri) motor (fan motor) do not operate	1. Bad contact of DC motor feedback terminal. 2. Bad contact of DC motor control end. 3. Fan motor is stalling. 4. Motor malfunction. 5. Malfunction of mainboard revdetecting circuit	

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
H7			Cascade	Vision Pro	Desyncronizing of compressor	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
HC			**Cascade**	Vision Pro	PFC protection	Replace outdoor control panel AP1 or Reactor	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation
Heating indicator off for 0.5s and then blinks for 10s			Cascade	Vision Pro	Defrosting	Not the error code. Its the status code for the operation	
JF			Cascade	Vision Pro	Malfunction of detecting plate(WIFI)	1. Main board of indoor unit is damaged; 2. Detection board is damaged; 3. The connection between indoor unit and detection board is not good;	
L3			Cascade	Vision Pro	Outdoor DC fan motor malfunction	DC fan motor malfunction or system blocked or the connector loosed	
L9			Cascade	Vision Pro	Power protection	To protect the electronical components when detect high power	
LC			**Cascade**	Vision Pro	Failure start- up	Refer to the malfunction analysis	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation
LP			Cascade	Vision Pro	Indoor unit and outdoor unit do not match	Indoor unit and outdoor unit doesnt match	
oE			Cascade	Vision Pro	Undefined outdoor unit error	1. Outdoor ambient temperature exceeds the operation range of unit (eg: less than- 20oC or more than 60oC for cooling; more than 30oC for heating); 2. Failure startup of compressor? 3. Are wires of compressor not connected tightly? 4. Is compressor damaged? 5. Is mainboard damaged?	
P0			Cascade	Vision Pro	Compressor Min. frequency in test state	Showing during min. cooling or min. heating test	
P1			Cascade	Vision Pro	Compressor rated frequency in test state	Showing during nominal cooling or nominal heating test	
P2			Cascade	Vision Pro	Compressor maximum frequency in test state	Showing during max. cooling or max. heating test	
P3			Cascade	Vision Pro	Compressor intermediate frequency in test state	Showing during middle cooling or middle heating test	
P5			Cascade	Vision Pro	Overcurrent protection of phase current for compressor	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
P7			Cascade	Vision Pro	Malfunction of module temperature sensor curcuit	Check the Temp Sensor, check the main board	
P8			Cascade	Vision Pro	Module high temperature protection	After the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.	

Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
PH			Cascade	Vision Pro	Voltage for DC busbar is too high	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C	
PL			Cascade	Vision Pro	Voltage for DC busbar is too low	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is lower than 150VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)	
PU			Cascade	Vision Pro	Charging malfunction of capacitor	Refer to the part three—charging malfunction analysis of capacitor	
U1			Cascade	Vision Pro	Malfunction of phase current detection circuit for compressor	Replace outdoor control panel AP1	
U3			Cascade	Vision Pro	Malfunction of voltage dropping for DC bus-bar	Supply voltage is unstable	
U5			Cascade	Vision Pro	Malfunction of complete units current detection	Theres circuit malfunction on outdoor units control panel AP1, please replace the outdoor units control panel AP1.	
U7			Cascade	Vision Pro	The four-way valve is abnormal	1.Supply voltage is lower than AC175V; 2.Wiring terminal 4V is loosened or broken; 3.4V is damaged, please replace 4V.	
U8			Cascade	Vision Pro	Malfunction of zero cross detection curcuit	1.Power supply is abnormal; 2.Detection circuit of indoor control mainboard is abnormal.	
A7			Cascade		Outdoor Tube Sensor	Check the Temp Sensor, check the main board	
bC			Cascade		Subcool temperature sensor error	Check the Temp Sensor, check the main board	
C4			Cascade		ODU jumper cap error	Step 1: Check the Jumper Cap, Step 2: Check the Outdoor Board	
C5			Cascade		Jumper cap malfunction protection	Step 1: Check the Jumper Cap, Step 2: Check the Indoor Board, Step 3: Check the Outdoor Board	
CE			Cascade		Communication error between main board and testing board	WIFI modul, vagy beltéri vezérlőpanel	
dc			Cascade		Suction temperature sensor error	Check the Temp Sensor, check the main board	
dd			Cascade		Wrong connection of communication wire or malfunction of EEV	Step 1: Check for Crossed Wiring, Step 2: Check the Stepper Motor	
dj			Cascade		Phase-loss and anti-phase protection		
dL			Cascade		Low pressure sensor error	Check the Pressure Transducer	
dn			Cascade		Wrong connection of communication wire or malfunction of EEV	Step 1: Check for Crossed Wiring, Step 2: Check the Stepper Motor	
e1			Cascade		Pressure transducer malfunction	Check the Pressure Transducer	
E1			Cascade		System high pressure protection	részletes hibakeresés kell	
E2			Cascade		Anti-freezing protection for evaporator	Step 1: Check if System Undercharged, Step 2: Check the Indoor Fan Motor, Step 3: Check the Temp Sensor, Step 4: Check the Expansion Valve	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
E3			Cascade		System low pressure protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Outdoor Fan Motor, Step 5: Check if System, Step 6: Check the Expansion Valve Undercharged	
E4			Cascade		High temperature protection	Step 1: Check the Outdoor Fan Motor, Step 2: Check for Dirty Filters, Coils, Step 3: Check the Temp Sensor, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check the Strainer, Step 7: Check by 4 Point Temp Check	
E5			Cascade		Over-current protection	Step 1: Check for High Voltage, Step 2: Check for Low Voltage, Step 3: Check for Dirty Filters, Coils, Step 4: Check the Reactor, Step 5: Check the Outdoor Fan Motor, Step 6: Check the Service Valve, Step 7: Check the Outdoor Board	
E6			Cascade		Communication failure within the system		
E8			Cascade		Compressor high temperature protection. Low indoor airflow	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check if System Overcharged, Step 6: Check the Reversing Valve	
E9			Cascade		Indoor fan delay in heating. Not an error code, it's a status code	Not the error code. Its the status code for the operation	
EE			Cascade		EEPROM memory chip loading malfunction.	Check Power Supply, Check the Outdoor Board	
F1			Cascade		Indoor ambient temperature sensor malfunction (15k)	Step 1: Check the Temp Sensor, Step 2: Check the Indoor Board	
F2			Cascade		Indoor coil temperature sensor malfunction (20k)	Step 1: Check the Temp Sensor, Step 2: Check the Indoor Board	
F3			Cascade		Outdoor ambient temperature sensor malfunction (15k)	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F4			Cascade		Outdoor coil temperature sensor malfunction (20k)	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
F5			Cascade		Wired controller temperature sensor malfunction	Step 1: Check the Temp Sensor	
F6			Cascade		Compressor decreased frequency due to overload	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F7			Cascade		Status code - Oil return		
F8			Cascade		At current limit / drop frequency	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Overcharged, Step 5: Check the Indoor Fan Motor, Step 6: Check the Outdoor Fan Motor	
F9			Cascade		Compressor decreased frequency due to high discharge air temperature	Step 1: Check for Dirty Filters, Coils, Step 2: Check if System Undercharged, Step 3: Check for Leak, Step 4: Check for Restriction, Step 5: Check the Expansion Valve, Step 6: Check by 4 Point Temp Check	
Fb			Cascade		Intermediate vapor injection temperature sensor error	Check the Temp Sensor, check the main board	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
FH			Cascade		Compressor decreased frequency due to indoor coil freeze protection	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Temp Sensor, Step 5: Check the Indoor Board	
Fn			Cascade		Gas sensor error if indoor unit	Check the Temp Sensor	
Fo			Cascade		Refrigerant Recovery Mode (Pump down status)		
FO			Cascade		Refrigerant Leak Protection Lock Out		
FU			Cascade		Middle pressure sensor error		
H0			Cascade		anti-heating high temperature drop frequency	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check the Temp Sensor, Step 3: Check by 4 Point Temp Check	
H1			Cascade		Status code - defrosting or oil return in heating mode	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check by 4 Point Temp Check	
H2			Cascade		static clearing dust protection		
H3			Cascade		Compressor over load protection	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Undercharged, Step 5: Check for Restriction, Step 6: Check by 4 Point Temp Check	
H4			Cascade		System overload, high temperature resistance protection	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check if System Undercharged, Step 5: Check for Restriction, Step 6: Check by 4 Point Temp Check	
H5			Cascade		IPM module sycronization and over-current protection	Step 1: Check the Outdoor Ambient Hi/Low, Step 2: Check for Dirty Filters, Coils, Step 3: Check for Blocked Air Flow, Step 4: Check the Temp Sensor, Step 5: Check the Compressor, Step 6: Check the Outdoor Board	
H6			Cascade		Indoor airflow	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Indoor Fan Motor, Step 4: Check the Indoor Board	
H7			Cascade		Compressor desyncronization or sensor malfunction	Step 1: Check the Temp Sensor, Step 2: Check for High Voltage, Step 3: Check the Compressor, Step 4: Check the Outdoor Board	
HC			Cascade		PFC module current protection	Step 1: Check for High Voltage, Step 2: Check the Outdoor Board	
HE			Cascade		Compressor demagnotizing protection	Step 1: Check the Compressor, Step 2: Check the Outdoor Board	
JF			Cascade		Malfunction of Wi-Fi detecting plate	Check the Indoor Board	
L1			Cascade		Humidity sensor error of indoor unit	Check the sensor	
L3			Cascade		Outdoor airflow	Step 1: Check the Outdoor Fan Motor, Step 2: Check the Outdoor Board, Step 3: Check if System Undercharged	
L9			Cascade		High power protection	Step 1: Check for High Voltage, Step 2: Check the Outdoor Board	
Lc			Cascade		Startup Failure of compressor	Step 1: Check for High Voltage, Step 2: Check the Compressor, Step 3: Check the Outdoor Board	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
LCP			Cascade		Total capacity of indoor units less than 50%	Step 1: Check if System Mismatched, Step 2: Check for Crossed Wiring	
LD			Cascade		Compressor loss of phase protection	Step 1: Check for High Voltage, Step 2: Check the Compressor, Step 3: Check the Outdoor Board	
LP			Cascade		Indoor and outdoor unit mismatched	Step 1: Check if System Mismatched, Step 2: Check the Outdoor Board, Step 3: Check the Indoor Board	
LU			Cascade		Frequency limitation for compressor discharge temperature	Step 1: Check for Dirty Filters, Coils, Step 2: Check for Blocked Air Flow, Step 3: Check the Outdoor Fan Motor, Step 4: Check if System Undercharged, Step 5: Check the Expansion Valve, Step 6: Check the Compressor	
OCP			Cascade		Total capacity if indoor units is more than 150%	Step 1: Check if System Mismatched, Step 2: Check for Crossed Wiring	
oE			Cascade		PFC module temperature protection	Step 1: Check the Temp Sensor, Step 2: Check the Outdoor Board	
P1			Cascade		Compressor standard rated frequency in test state.		
P2			Cascade		Compressor maximum rated frequency in test state.		
P3			Cascade		Compressor intermediate frequency in test state.	Check for High Voltage	
P5			Cascade		Compressor overcurrent protection of phase current	Step 1: Check if System Undercharged, Step 2: Check if System Overcharged, Step 3: Check for Blocked Air Flow, Step 4: Check the Outdoor Fan Motor, Step 5: Check the Compressor, Step 6: Check the Outdoor Board	
P6			Cascade		Communication failure between driver board and main board	Check the Outdoor Board	
P7			Cascade		IPM temperature sensor circuit malfunction	Check the Temp Sensor, check the main board	
P8			Cascade		IPM / PFC module high temperature protection	Step 1: Check for Blocked Air Flow, Step 2: Check if System Overcharged, Step 3: Check the Outdoor Board	
PA			Cascade		AC current protection	Check for High Voltage	
Pc			Cascade		current or driver circuit sensor malfunction	Step 1: Check for High Voltage, Step 2: Check the Reactor, Step 3: Check the Compressor, Step 4: Check the Outdoor Board	
PH			Cascade		Voltage on DC bus bar too high (P&N protection)	Step 1: Check for High Voltage, Step 2: Check the Outdoor Board	
PL			Cascade		Voltage on DC bus bar too low (P&N protection)	Step 1: Check for Low Voltage, Step 2: Check the Outdoor Board	
Pn			Cascade		Frequency limitation for low pressure	Step 1: Check if System Undercharged, Step 2: Check for Restriction, Step 3: Check the Expansion Valve, Step 4: Check the Stepper Motor, Step 5: Check the Temp Sensor	
PO			Cascade		Compressor minimum rated frequency in test state. (Flexx Driver reset protection)		
PU			Cascade		Capacitor charging malfunction. (Flexx Charge loop error)	Check the Outdoor Board	

Cascade

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Hibakód (beltéri egységen)	Hibakód (kültéri egységen)	Hibakód (kijelzőn)	Márka	Gép fajta	A hiba leírása	A hiba helye, és/vagy jellege	Hibakeresés folyamatábra (és/vagy leírás)
U1			Cascade		compressor phase current detection circuit malfunction	Step 1: Check for High Voltage, Step 2: Check the Compressor, Step 3: Check the Outdoor Board	
U2			Cascade		Compressor protection against phase loss	Step 1: Check for High Voltage, Step 2: Check the Reactor, Step 3: Check the Compressor, Step 4: Check the Outdoor Board	
U3			Cascade		PN voltage drop IN BUS BAR protection	Step 1: Check for High Voltage, Step 2: Check the Outdoor Fan Motor, Step 3: Check the Stepper Motor, Step 4: Check the Compressor, Step 5: Check the Outdoor Board	
U5			Cascade		AC current detection circuit malfunction	Check for High Voltage	
U7			Cascade		Reversing valve malfunction	Step 1: Check for High Voltage, Step 2: Check the Reversing Valve	
U8			Cascade		Dissection of exhaust temperature sensor. Zero cross detection of circuit IDU	Step 1: Check the Temp Sensor, Step 2: Check the Indoor Board	
U9			Cascade		AC power detects zero voltage error	Step 1: Check for High Voltage, Step 2: Check the Outdoor Board	